STR-DA4ES/DA7ES/VA333ES

SERVICE MANUAL

Ver 1.0 2002. 07

US Model
Canadian Model
STR-DA4ES/DA7ES
AEP Model
E Model
STR-VA333ES

Photo: STR-VA333ES

This receiver incorporates Dolby* Digital and Pro Logic Surround and the DTS** Digital Surround System.
* Manufactured under license from Dolby Laboratories.
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** "DTS", "DTS-ES Extended Surround" and "Neo: 6" are trademarks of Digital Theater Systems, Inc.

SPECIFICATIONS

STR-DA4ES/DA7ES
AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8 ohm loads, both channels driven, from 20 – 20,000 Hz; rated DA4ES: 110, DA7ES: 120 watts per channel minimum RMS power, with no more than 0.05 % total harmonic distortion from 250 milliwatts to rated output.

AMPLIFIER SECTION

POWER OUTPUT

Rated Power Output at Stereo Mode

(8 ohms 20 Hz – 20 kHz, THD 0.05 %)
STR-DA7ES: 120 W + 120 W
STR-DA4ES: 110 W + 110 W
(4 ohms 20 Hz – 20 kHz, THD 0.09 %)
STR-DA7ES: 100 W + 100 W
STR-DA4ES: 90 W + 90 W

Reference Power Output

(8 ohms 20 Hz – 20 kHz, THD 0.05 %)

STR-DA7ES:	FRONT [1] : 120 W + 120 W
	CENTER [1] : 120 W
	SURR [1] : 120 W + 120 W
	SURR BACK [1] : 120 W + 120 W
STR-DA4ES:	FRONT [1] : 110 W + 110 W
	CENTER [1] : 110 W
	SURR [1] : 110 W + 110 W
	SURR BACK [1] : 110 W + 110 W

(4 ohms 20 Hz – 20 kHz, THD 0.09 %)

STR-DA7ES:	FRONT [1] : 100 W + 100 W
	CENTER [1] : 100 W
	SURR [1] : 100 W + 100 W
	SURR BACK [1] : 100 W + 100 W
STR-DA4ES:	FRONT [1] : 90 W + 90 W
	CENTER [1] : 90 W
	SURR [1] : 90 W + 90 W
	SURR BACK [1] : 90 W + 90 W

1) Depending on the sound field settings and the source, there may be no sound output.

– Continued on next page –

FM STEREO FM-AM RECEIVER

9-874-082-01
2002G0400-1
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Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

SONY

Frequency response

PHONO	RIAA equalization curve ±0.5 dB
CD/SACD, TAPE, MD/DAT, TV/SAT, DVD/LD, VIDEO 1, 2, 3	10 Hz – 100 kHz +0.5/–2 dB (with sound field, equalizer, and bass boost bypassed)

Inputs (Analog)

PHONO	Sensitivity: 2.5 mV Impedance: 50 kilohms S/N [2] : 86 dB (A, 2.5 mV [3])
MULTI CHANNEL IN 1, 2, CD/SACD, TAPE, MD/DAT, DVD/LD, TV/SAT, VIDEO 1, 2, 3	Sensitivity: 150 mV Impedance: 50 kilohms S/N [2] : 100 dB (A, 150 mV [3])

2) INPUT SHORT.
3) Weighted network, input level.

Inputs (Digital)

CD/SACD, DVD/LD (Coaxial)	Sensitivity: – Impedance: 75 ohms S/N: 100 dB (A, 20 kHz LPF)
CD/SACD, DVD/LD, TV/SAT, MD/DAT (Optical)	Sensitivity: – Impedance: – S/N: 100 dB (A, 20 kHz LPF)

Outputs

TAPE, MD/DAT (REC OUT), VIDEO 1, 2 (AUDIO OUT)	Voltage: 150 mV Impedance: 10 kilohms
FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R, SUB WOOFER	Voltage: 2 V Impedance: 1 kilohms

EQ

BASS:	99 Hz~1.0 kHz (21 steps)
MID (FRONT L/R, CENTER only):	198 Hz~10 kHz (36 steps)
TREBLE:	1.0 kHz~10 kHz (23 steps)
Gain levels:	±10 dB, 0.5 dB step

FM TUNER SECTION

Tuning range 87.5 - 108.0 MHz

Antenna terminals 75 ohms, unbalanced

Sensitivity
Mono: 18.3 dBf, 2.2 µV/75 ohms
Stereo: 38.3 dBf, 22.5 µV/75 ohms
Usable sensitivity 11.2 dBf, 1 µV/75 ohms

S/N
Mono: 76 dB
Stereo: 70 dB

Harmonic distortion at 1 kHz
Mono: 0.3%
Stereo: 0.5%

Separation 45 dB at 1 kHz

Frequency response 30 Hz – 15 kHz, +0.5/–2 dB

Selectivity 60 dB at 400 kHz

AM TUNER SECTION

Tuning range
With 10-kHz tuning scale: 530 – 1710 kHz [4]
With 9-kHz tuning scale: 531 – 1710 kHz [4]

Antenna Loop antenna

Usable sensitivity 50 dB/m (at 1,000 kHz or 999 kHz)

S/N 54 dB (at 50 mV/m)

Harmonic distortion 0.5 % (50 mV/m, 400 kHz)

Selectivity
At 9 kHz: 35 dB
At 10 kHz: 40 dB

4) You can change the AM tuning scale to 9 kHz or 10 kHz. After tuning in any AM station, turn off the receiver. Hold down TUNING + and press **I/⏻** . All preset stations will be erased when you change the tuning scale. To reset the scale to 10 kHz (or 9 kHz), repeat the procedure.

VIDEO SECTION

Inputs/Output

Video:	1 Vp-p, 75 ohms
S-video:	Y: 1 Vp-p, 75 ohms C: 0.286 Vp-p, 75 ohms
COMPONENT VIDEO:	Y: 1 Vp-p, 75 ohms B-Y: 0.7 Vp-p, 75 ohms R-Y: 0.7 Vp-p, 75 ohms

REMOTE CONTROL RM-US105A (STR-DA7ES only)

Remote control system Infrared control

Power requirements 3 V DC with two R6 (size-AA) batteries

Dimensions 210 × 45 × 25 mm

Mass (approx.) 95 g excluding batteries

GENERAL

Power requirements 120 V AC, 60 Hz

Power consumption
Models of area code U
STR-DA7ES: 450 W
STR-DA4ES: 420 W

Models of area code CA
STR-DA7ES: 490 VA
STR-DA4ES: 470 VA

Power consumption (during standby mode) 1 W

AC outlets 2 switched, 120 W/1A
Dimensions 430 × 174 × 465 mm including projecting parts and controls

Mass (Approx.)
STR-DA7ES: 21.0 kg
STR-DA4ES: 21.0 kg

Supplied accessories
FM wire antenna (1)
AM loop antenna (1)
Audio/video/control S cord (1)
Control S cord (mini jack) (1)
STR-DA7ES only;
Remote commander RM-TP1 (1)
Base unit RMB-TP1 (1 for RM-TP1)
AC adapter (1 for RM-TP1)
Remote commander RM-US105A (1)
R6 (size-AA) batteries (2)
STR-DA4ES only;
Remote commander RM-LP211 (1)
LR6 (size-AA) batteries (3)

Design and specifications are subject to change without notice.

STR-VA333ES
AMPLIFIER SECTION

Models of area code TW:
Power Output
(8 ohms 20 Hz – 20 kHz, THD 0.05 %)
100 W + 100 W
(4 ohms 20 Hz – 20 kHz, THD 0.09 %)
90 W + 90 W
Reference Power Output
(8 ohms 20 Hz – 20 kHz, THD 0.05 %)
FRONT[1)]: 100 W + 100 W
CENTER[1)]: 100 W
SURR[1)]: 100 W + 100 W
SURR BACK[1)]: 100 W + 100 W
(4 ohms 20 Hz – 20 kHz, THD 0.09 %)
FRONT[1)]: 90 W + 90 W
CENTER[1)]: 90 W
SURR[1)]: 90 W + 90 W
SURR BACK[1)]: 90 W + 90 W

1) Depending on the sound field settings and the source, there may be no sound output.

Models of area code CEL, KR:
Power Output
(8 ohms 1 kHz, THD 0.7 %)
100 W + 100 W[2)]
90 W + 90 W[3)]
(4 ohms 1 kHz, THD 0.7 %)
90 W + 90 W[2)]
80 W + 80 W[3)]
Reference Power Output
(8 ohms 1 kHz, THD 0.7 %)
FRONT[4)]: 100 W + 100 W
CENTER[4)]: 100 W
SURR[4)]: 100 W + 100 W
SURR BACK[4)]: 100 W + 100 W
(4 ohms 1 kHz, THD 0.7 %)
FRONT[4)]: 90 W + 90 W
CENTER[4)]: 90 W
SURR[4)]: 90 W + 90 W
SURR BACK[4)]: 90 W + 90 W
(8 ohms 20 Hz – 20 kHz, THD 0.05 %)
FRONT[4)]: 90 W + 90 W
CENTER[4)]: 90 W
SURR[4)]: 90 W + 90 W
SURR BACK[4)]: 90 W + 90 W
(4 ohms 20 Hz – 20 kHz, THD 0.05 %)
FRONT[4)]: 80 W + 80 W
CENTER[4)]: 80 W
SURR[4)]: 80 W + 80 W
SURR BACK[4)]: 80 W + 80 W

2) Measured under the following conditions:
Models of area code CEL: 230 V AC, 50 Hz
3) Measured under the following conditions:
Models of area code KR: 220 V AC, 60 Hz
4) Depending on the sound field settings and the source, there may be no sound output.

Frequency response

PHONO	RIAA equalization curve ±0.5 dB
CD/SACD, TAPE, MD/DAT, TV/SAT, DVD/LD, VIDEO 1, 2, 3	10 Hz – 100 kHz +0.5/–2 dB (with sound field, equalizer, and bass boost bypassed)

Inputs (Analog)

PHONO	Sensitivity: 2.5 mV Impedance: 50 kilohms S/N[5]: 86 dB (A, 2.5 mV[6])
MULTI CHANNEL IN 1, 2, CD/SACD, TAPE, MD/DAT, DVD/LD, TV/SAT, VIDEO 1, 2, 3	Sensitivity: 150 mV Impedance: 50 kilohms S/N[5]: 100 dB (A, 150 mV[6])

5) INPUT SHORT.
6) Weighted network, input level.

Inputs (Digital)

CD/SACD, DVD/LD (Coaxial)	Sensitivity: – Impedance: 75 ohms S/N: 100 dB (A, 20 kHz LPF)
CD/SACD, DVD/LD, TV/SAT, MD/DAT (Optical)	Sensitivity: – Impedance: – S/N: 100 dB (A, 20 kHz LPF)

Outputs

TAPE, MD/DAT (REC OUT), VIDEO 1, 2 (AUDIO OUT)	Voltage: 150 mV Impedance: 10 kilohms
FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R, SUB WOOFER	Voltage: 2 V Impedance: 1 kilohms

EQ

BASS:	99 Hz~1.0 kHz (21 steps)
MID (FRONT L/R, CENTER only):	198 Hz~10 kHz (36 steps)
TREBLE:	1.0 kHz~10 kHz (23 steps)
Gain levels:	±10 dB, 0.5 dB step

FM TUNER SECTION

Tuning range	87.5 – 108.0 MHz
Antenna terminals	75 ohms, unbalanced
Sensitivity	
Mono:	18.3 dBf, 2.2 µV/75 ohms
Stereo:	38.3 dBf, 22.5 µV/75 ohms
Usable sensitivity	11.2 dBf, 1 µV/75 ohms
S/N	
Mono:	76 dB
Stereo:	70 dB
Harmonic distortion at 1 kHz	
Mono:	0.3%
Stereo:	0.5%
Separation	45 dB at 1 kHz
Frequency response	30 Hz – 15 kHz, +0.5/–2 dB
Selectivity	60 dB at 400 kHz

AM TUNER SECTION

Tuning range	531 – 1602 kHz
Antenna	Loop antenna
Usable sensitivity	50 dB/m (at 999 kHz)
S/N	54 dB (at 50 mV/m)
Harmonic distortion	0.5 % (50 mV/m, 400 Hz)
Selectivity	35 dB

VIDEO SECTION

Inputs/Outputs

Video:	1 Vp-p, 75 ohms
S-video:	Y: 1 Vp-p, 75 ohms C: 0.286 Vp-p, 75 ohms
COMPONENT VIDEO:	Y: 1 Vp-p, 75 ohms B-Y: 0.7 Vp-p, 75 ohms R-Y: 0.7 Vp-p, 75 ohms

GENERAL

Power requirements

Area code	Power requirements
CEL	230 V AC, 50/60 Hz
TW	110 V AC, 60 Hz
KR	220 V AC, 60 Hz

Power consumption

Area code	Power consumption
CEL, KR	390 W
TW	400 W (max. 1,000 W)

Power consumption (during standby mode)
1 W

AC outlets

Area code	AC outlets
CEL	1 switched, 100 W
TW	2 switched, 100 W

Dimensions 430 × 175 × 465 mm including projecting parts and controls

Mass (Approx.) 21.0 kg

Supplied accessories
FM wire antenna (1)
AM loop antenna (1)
Remote commander RM-LP211 (1)
LR6 (size-AA) batteries (3)

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

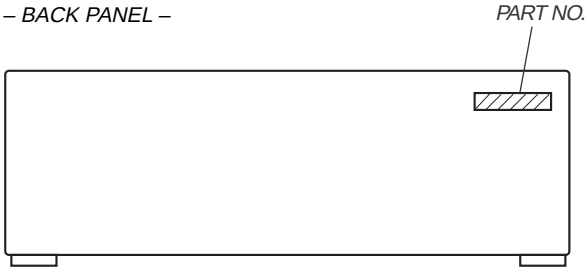
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

MODEL IDENTIFICATION

– BACK PANEL –



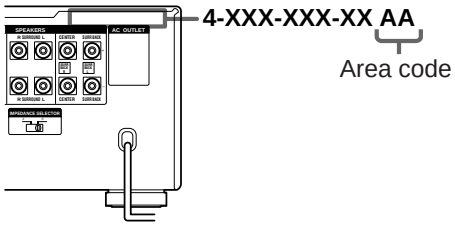
MODEL	PARTS No.
DA7ES: US model	4-240-816-0☐
DA7ES: CND model	4-240-816-1☐
DA4ES: US model	4-240-816-2☐
DA4ES: CND model	4-240-816-3☐
VA333ES: AEP model	4-240-816-4☐
VA333ES: KR model	4-240-816-5☐
VA333ES: TW model	4-240-816-6☐

- Abbreviation
  CND : Canadian model
  KR : Korea model
  TW : Taiwan model

AREA CODE

About area codes

The area code of the receiver you purchased is shown on the lower portion of the rear panel (see the illustration below).



Any differences in operation, according to the area code, are clearly indicated in the text, for example, “Models of area code AA only”.

Fig. 1

SAFETY CHECK-OUT
(US model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

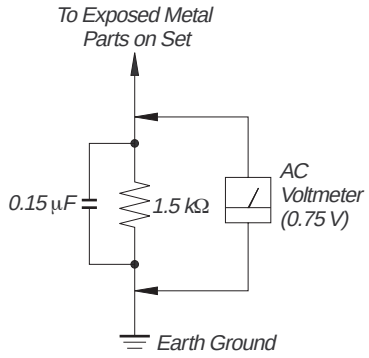


Fig. A. Using an AC voltmeter to check AC leakage.

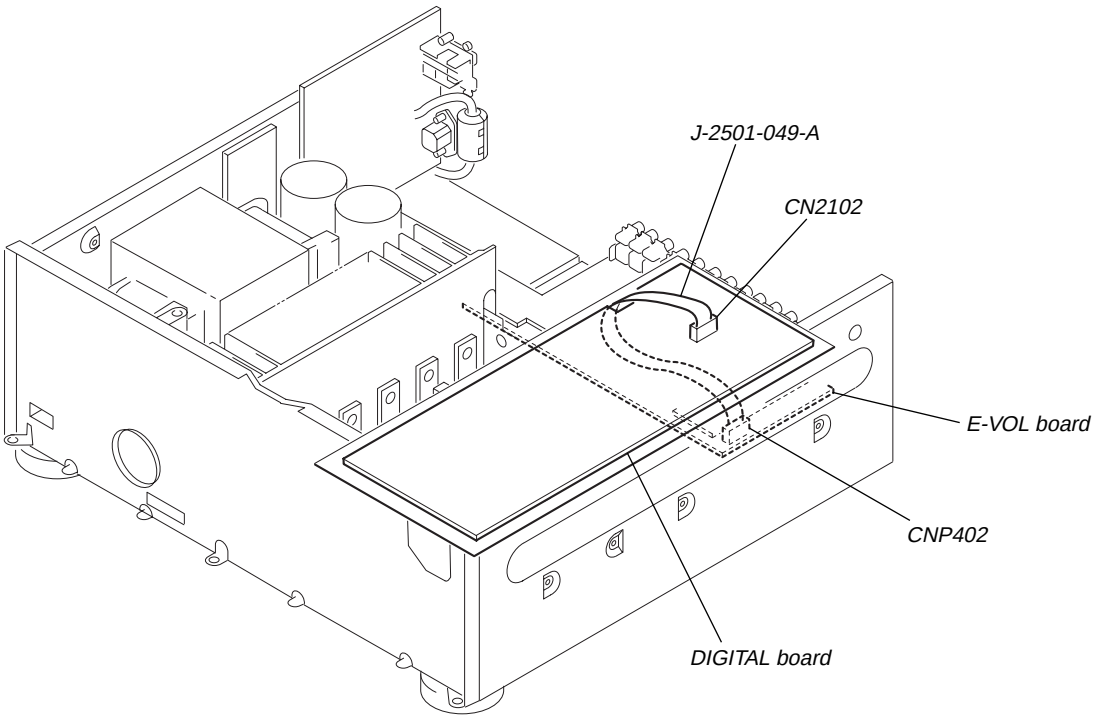
Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

EXTENSION CABLE AND SERVICE POSITION

When repairing or serving this set, connect the jig (extension cable) as shown below.

- Connect the Digital board (CN2102) and the E-Vol board (CNP402) with the extension cable (Part No. J-2501-049-A).



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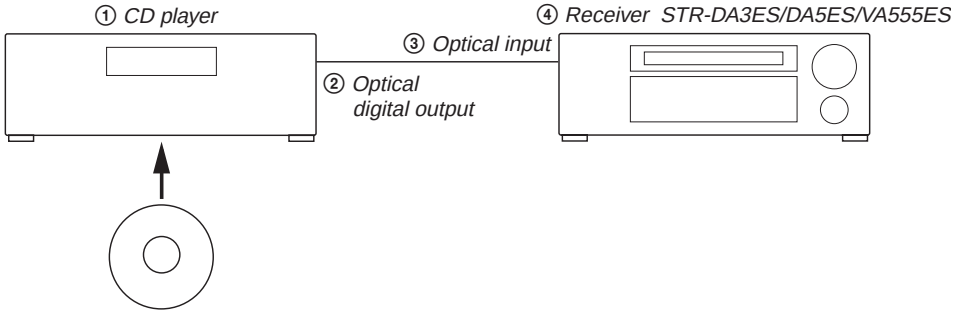
SECTION 1
SERVICE NOTE

DTS Decode Test

• Required Instrument
CD player (equipped with optical digital output)
Optical cable
DTS test CD (J-2501-154-A)

Connection:


① CD player
④ Receiver STR-DA3ES/DA5ES/VA555ES
③ Optical input
② Optical digital output
⑤ DTS test CD (Music Demonstration and Set Up Disc)

Procedure:

1. Set the FUNCTION of the receiver to the CD position and confirm that " OPTICAL " and "CD" appear on the display.

2. Insert the DTS test CD into the CD player and play the CD.

3. About three seconds later, confirm that the receiver recognizes the optical signal and that the "DTS" and "dts [3/2]" are appear on the display. Confirm also that MULTI CHANNEL DECODING (blue lamp) flashes on the front panel.

Music Demonstration

Track No.	Contents	Time
1	Seal : "Prayer for the Dying"	5'40"
2	Andrew Litton conducting The Dallas Symphony Orchestra & Chorus: Excerpt from Tchaikovsky: "1812 Overture"	4'16"
3	Alan Parsons with Christopher Cross: "So Far Away"	4'08"
4	Shoelss Joe: "The Bet"	3'29"
5	TELARC: "A Touch of Surround Madness"	6'42"

Set-Up

Track No.	Contents	Time
6	1 kHz sine (All channels) Level Adjustment and Harmonic Distortion Analysis	1'00"
7	100 Hz sine (All channels) Verification of Signal and Subwoofer Testing	1'00"
8	C-Weighted Pink Noise-Left Front Channel	1'00"
9	C-Weighted Pink Noise-Center Channel	2'00"
10	C-Weighted Pink Noise-Right Front Channel	2'00"
11	C-Weighted Pink Noise-Right Rear Channel	2'00"
12	C-Weighted Pink Noise-Left Rear Channel	2'00"
13	C-Weighted Pink Noise-Subwoofer (LEE)	2'00"
14	C-Weighted Pink Noise-All Channels	2'00"
15	10 Hz to 20 kHz Sine Sweep An "All Channel" Frequency Response Test	2'00"
16	20 Hz to 160 Hz sine sweep A "Subwoofer" Low Frequency Response Test	2'00"

* Track numbers from 8 to 14 are for Room Equalization and Channel Identification.

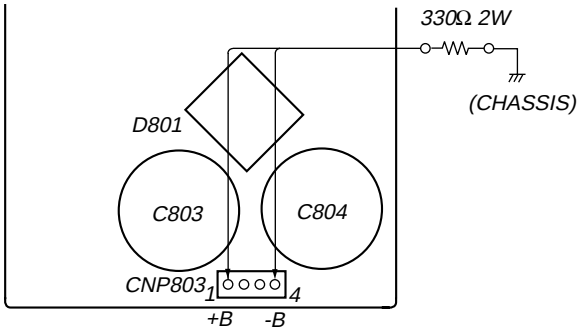
Note: Be careful about an electrical shock caused by remains of electrical potential.

The following parts on DC board have the +B or -B electrical potential.
Heat sink for rectifier diodes D801.
Aluminium case of smoothing capacitor C803, 804.

The 40-60V electrical voltage remains in C803, 804 when the power turns off.
Be sure to discharge in the following manner before servicing.

Discharging

1. Pull out the power cord from the wall outlet.
2. Connect 330 ohm 2W resistors between the heat sinks for CNP803 1pin and 4pin and chassis individually.
3. Check the electrical potential drops fully, then start servicing.



DC BOARD (COMPONENT SIDE)

Main unit

ALPHABETICAL ORDER

NUMBERS AND SYMBOLS

A - I

ANALOG DIRECT 19 (34)
AUDIO SPLIT 14 (41)
AUTO DEC 22 (34)
CINEMA STUDIO EX 25 (35)
Cursor buttons (</>) 38 (21, 43–47, 57, 58)
CUSTOMIZE 40 (47, 58)
Digital Cinema Sound indicator 8
DIMMER 26 (31)
DISPLAY 4 (31)
Display 6
DOOR OPEN 15
ENTER 37 (21, 46, 57, 58)
EQ 39 (45, 46)
EQ BANK 41 (45, 46)
FM/AM 24 (28)
FM MODE 44 (28)
FUNCTION 13 (27, 28, 30, 41, 42, 58)
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IR receptor 2

J - V

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MUTING 11 (27)
MULTI CH DIRECT 18 (28)
NIGHT MODE 42 (38)
NIGHT MODE indicator 5
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PRESET TUNING +/– 23 (30)
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SURR BACK DECODING 16 (39)
SURROUND 33 (43)
TUNING +/– 30 (28)
VIDEO 3 INPUT jacks 45 (16)

NUMBERS AND SYMBOLS

2CH STEREO 20 (34)
2ND ROOM (STR-DA4ES only) 31 (67)
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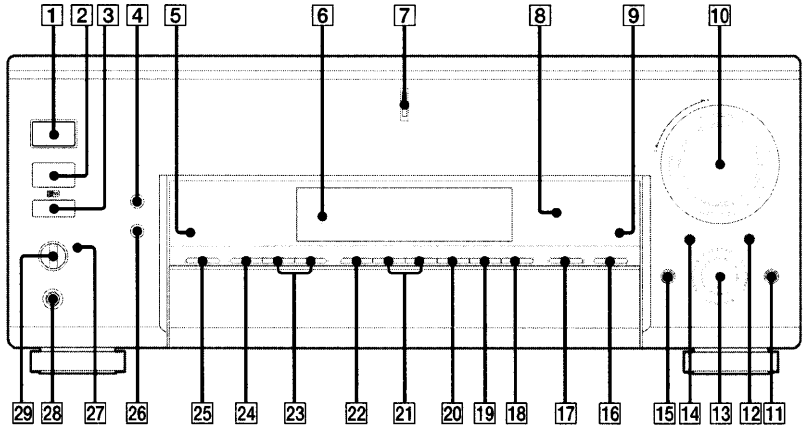
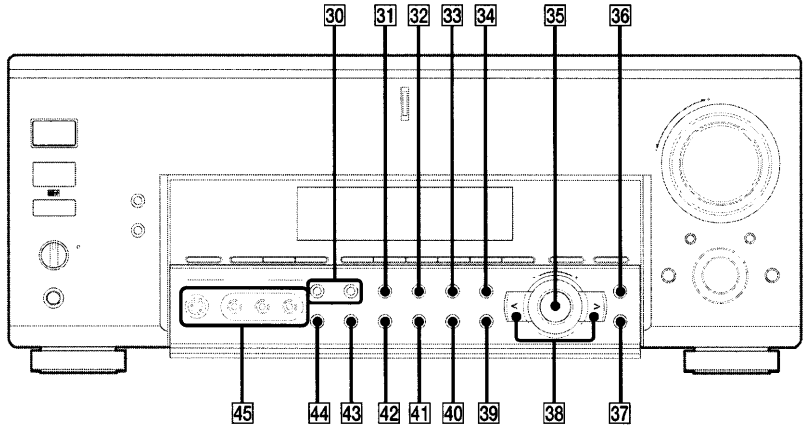
2ND/3RD ROOM (STR-DA7ES only) 31 (67)
2ND/3RD ROOM indicator (STR-DA7ES only) 27
I/⏻ (power) 1



Open the front door



This section is extracted from instruction manual.

Main unit

ALPHABETICAL ORDER

A - L

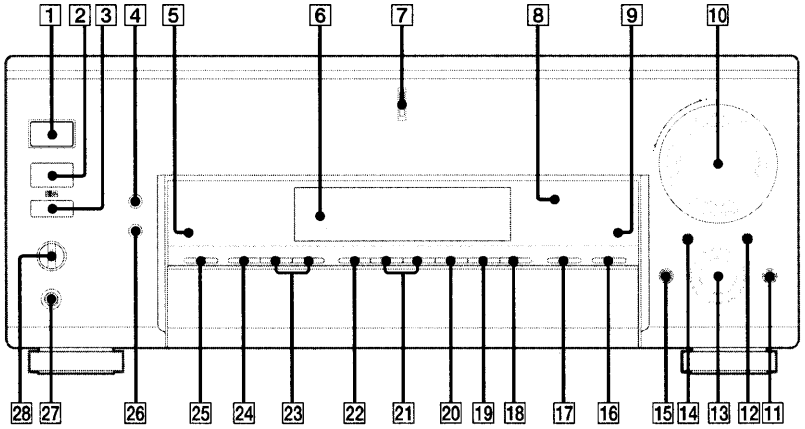
ANALOG DIRECT 19 (34)
AUDIO SPLIT 14 (41)
AUTO DEC 22 (34)
CINEMA STUDIO EX 25 (35)
Cursor buttons (</>) 37 (19, 43–47, 57)
CUSTOMIZE 39 (47, 57)
Digital Cinema Sound indicator 8
DIMMER 26 (31)
DISPLAY 4 (29, 31)
Display 6
DOOR OPEN 15
ENTER 36 (46, 57)
EQ 38 (45, 46)
EQ BANK 40 (45, 46)
FM/AM 24 (26)
FM MODE 43 (26)
FUNCTION 13 (25, 26, 28, 41, 42, 57)
INPUT MODE 12 (42)
IR emitter 3
IR receptor 2
Jog dial 34 (19, 43–47, 57)
LEVEL 33 (44)

M - V

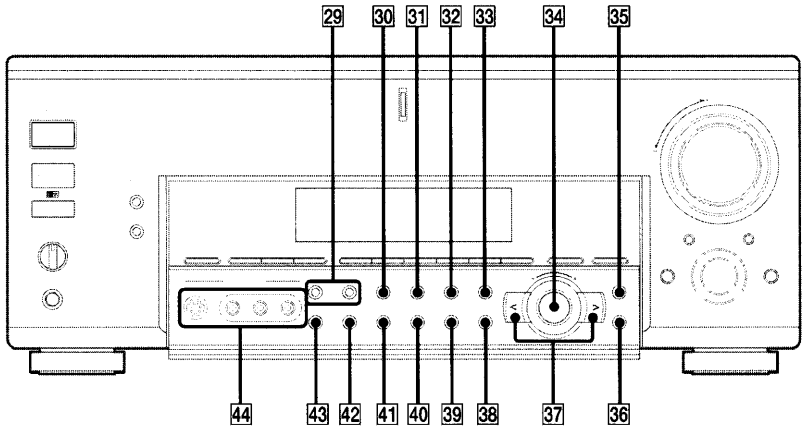
MASTER VOLUME 10 (24, 25)
MEMORY 42 (27, 28)
MODE +/– 21 (36, 37, 45)
MULTI CH DIRECT 18 (26)
MULTI CHANNEL DECODING indicator 7
MUTING 11 (25)
NIGHT MODE 41 (38)
NIGHT MODE indicator 5
NORMAL SURR (DOLPLII/NEO:6) 17 (38)
ON SCREEN 31 (9, 12, 14)
PHONES jack 27
PRESET TUNING +/– 23 (28)
PTY SELECT +/– 29 (29)
(Models of area code CEL only)
RDS PTY 30 (29)
(Models of area code CEL only)
SB DEC indicator 9
SET UP 35 (19)
SLEEP 30 (58)
(Models of area code TW, KR only)
SPEAKERS switch 28 (58)
SURR BACK DECODING 16 (39)
SURROUND 32 (43)
TUNING +/– 29 (26)
VIDEO 3 INPUT jacks 44 (14)

NUMBERS AND SYMBOLS

2CH STEREO 20 (34)
I/⏻ (power) 1



Open the front door



SECTION 3
TEST MODE

FLUORESCENT INDICATOR TUBE TEST MODE

All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.

Procedure:

1. While depressing, the [DISPLAY] and the [ENTER] buttons simultaneously, press the power [I/⏻] button to turn on the main power.
2. All segments turn on at the same time, then each segment turns on press the [DIMMER] button.

FACTORY SET MODE

All preset contents are reset to the default setting.

Procedure:

Procedure:

1. While pressing [SET UP] and [DIMMER] buttons, press [I/⏻] button, then "TUNER FACTORY PRESET" is displayed in several seconds and PRESET is complete.

ALL CLEAR MODE

Procedure:

1. Press [I/⏻] button continuously, then "ENTER to Clear ALL" is displayed and press [ENTER] the preset data are cleared."

SOUND FIELD CLEAR MODE

The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.

Procedure:

1. While depressing the [MODE +] button, press the power [I/⏻] button to turn on the main power. The message S.F Initialize appears and initialization is performed.

AM CHANNEL STEP 9 KHZ/10 KHZ SELECTION MODE (DA4ES, DA7ES, VA333ES: E MODELS)

Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.

Procedure:

1. Set the FUNCTION to AM. Turn off the main power.
2. While depressing the [TUNING +] button press the power [I/⏻] button to turn on the main power.
3. Either the message AM 9kHz Step or AM 10kHz Step appears. Select the desired step.

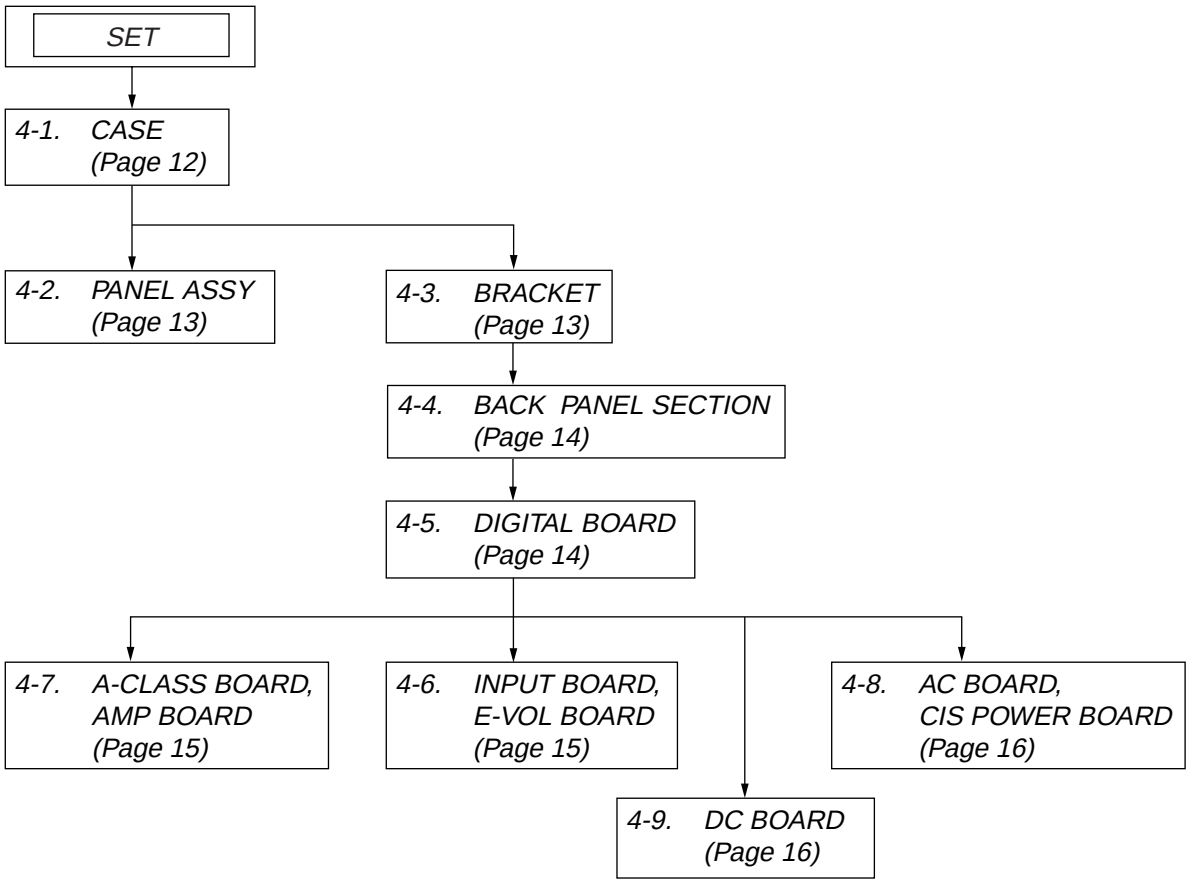
VERSION MODE

Procedure:

1. While pressing [SURR] and [ENTER] buttons, press [I/⏻] button, then "MENU SPECIALIZED!" is displayed in several seconds.
2. Press [>] button, then "D7ES U_CA VX.XX..." is displayed in several seconds.

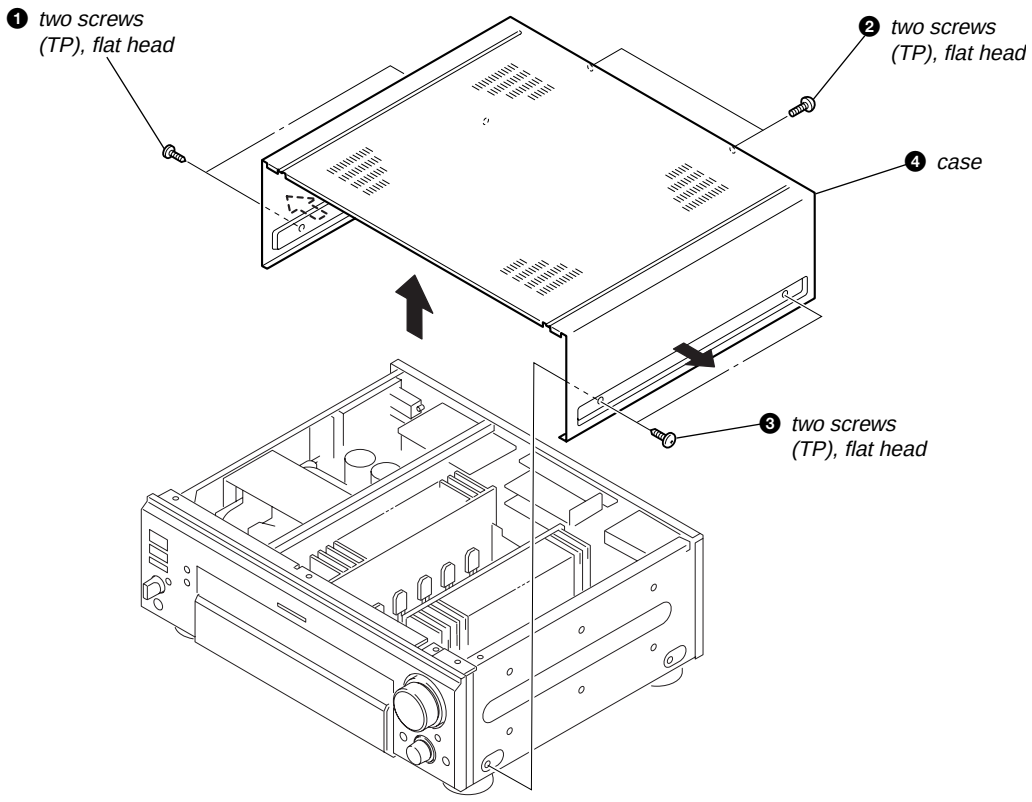
SECTION 4
DISASSEMBLY

Note: This set can be disassemble according to the following sequence.

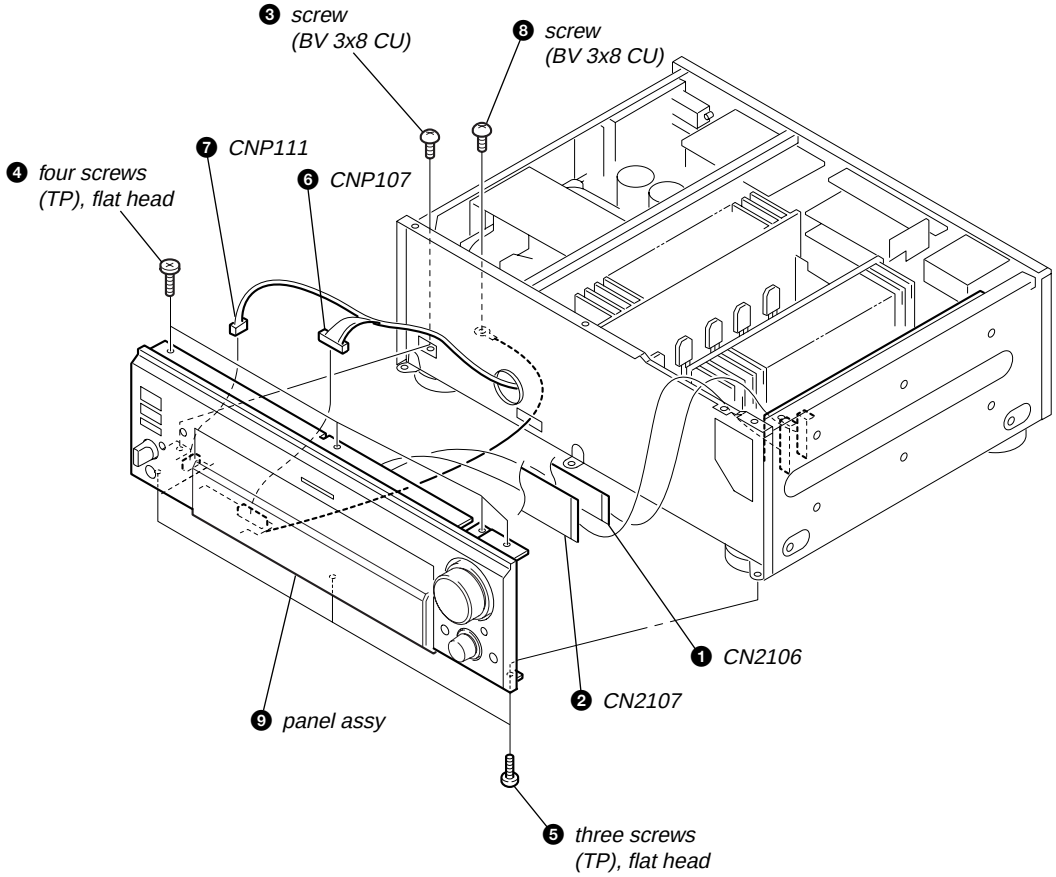

SET
4-1. CASE (Page 12)
4-2. PANEL ASSY (Page 13)
4-3. BRACKET (Page 13)
4-4. BACK PANEL SECTION (Page 14)
4-5. DIGITAL BOARD (Page 14)
4-7. A-CLASS BOARD, AMP BOARD (Page 15)
4-6. INPUT BOARD, E-VOL BOARD (Page 15)
4-8. AC BOARD, CIS POWER BOARD (Page 16)
4-9. DC BOARD (Page 16)

Note: Follow the disassembly procedure in the numerical order given.

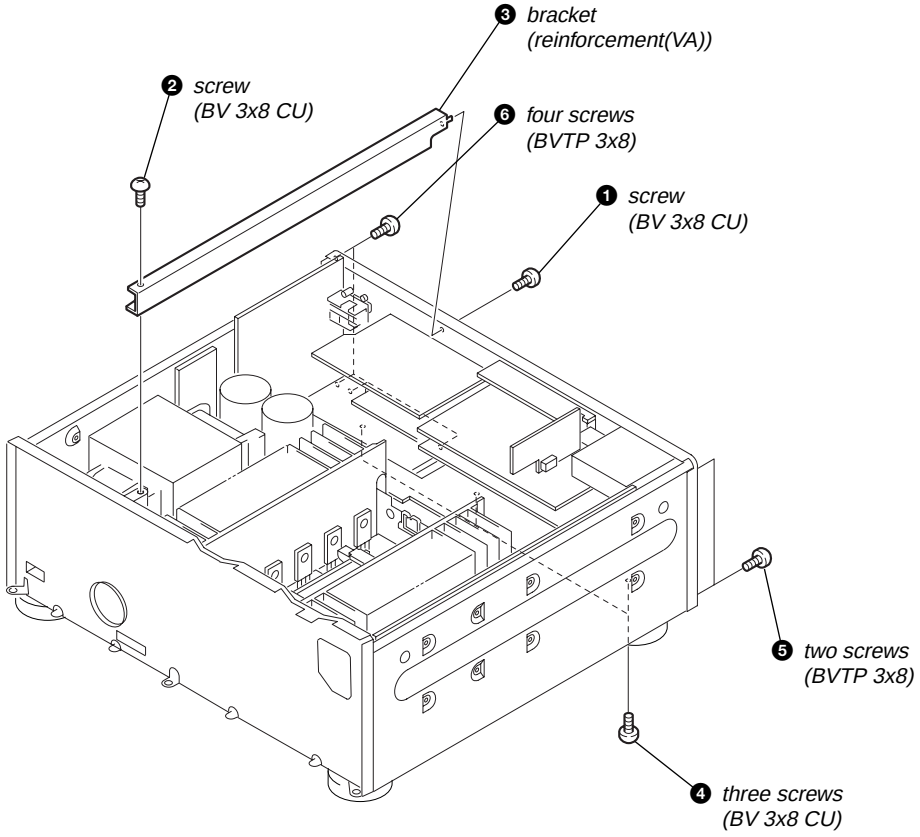
4-1. CASE



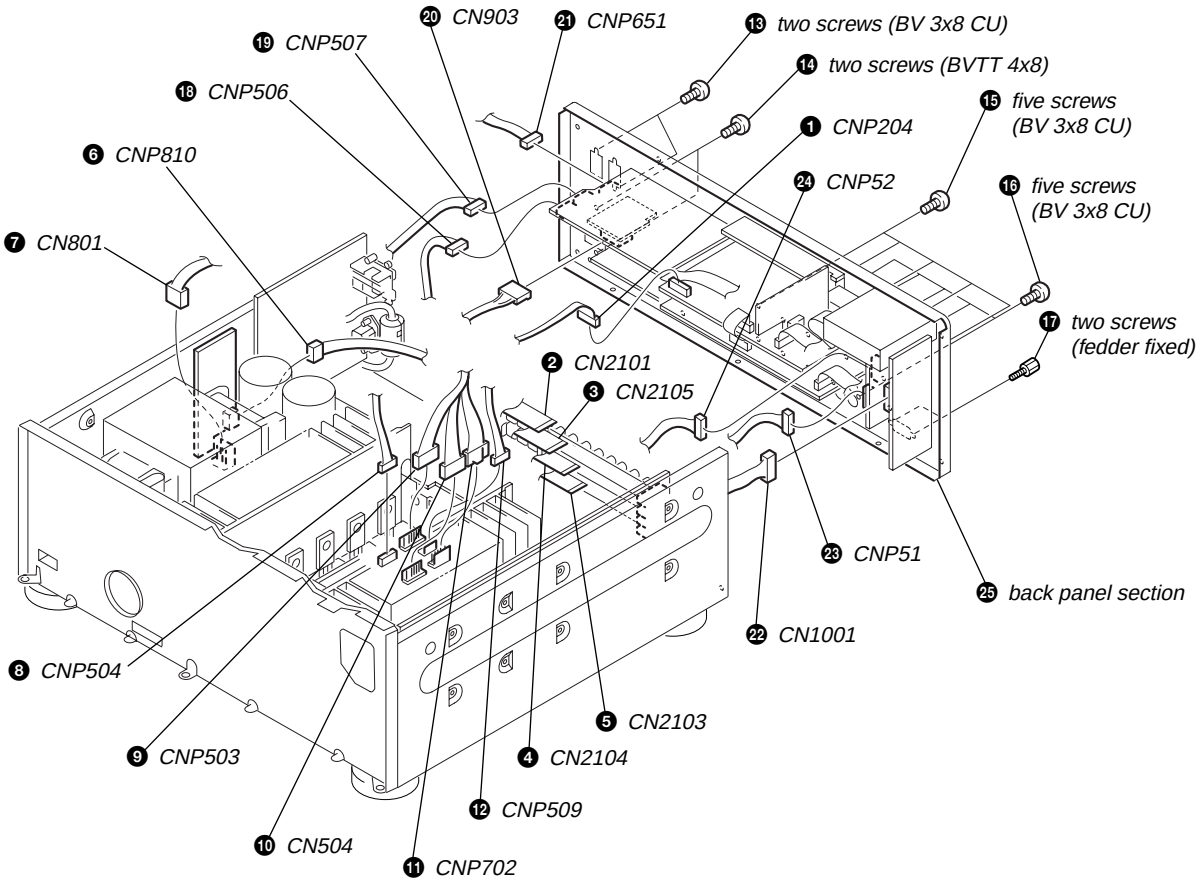
4-2. PANEL ASSY



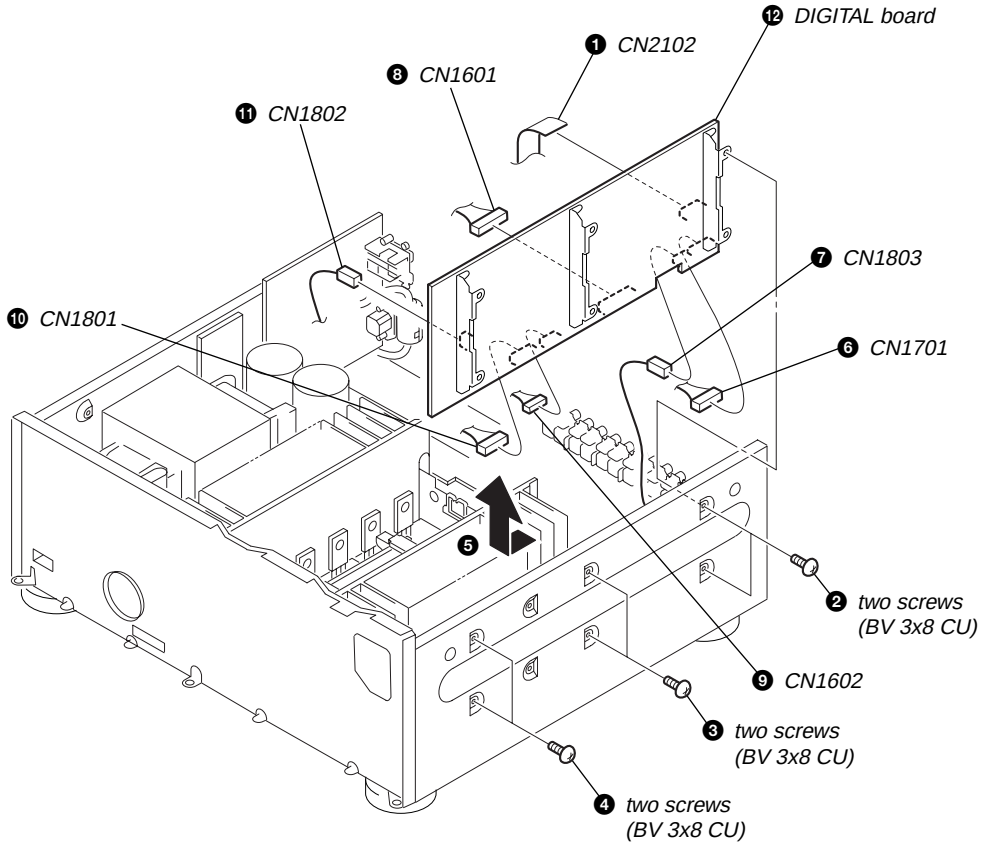
4-3. BRACKET



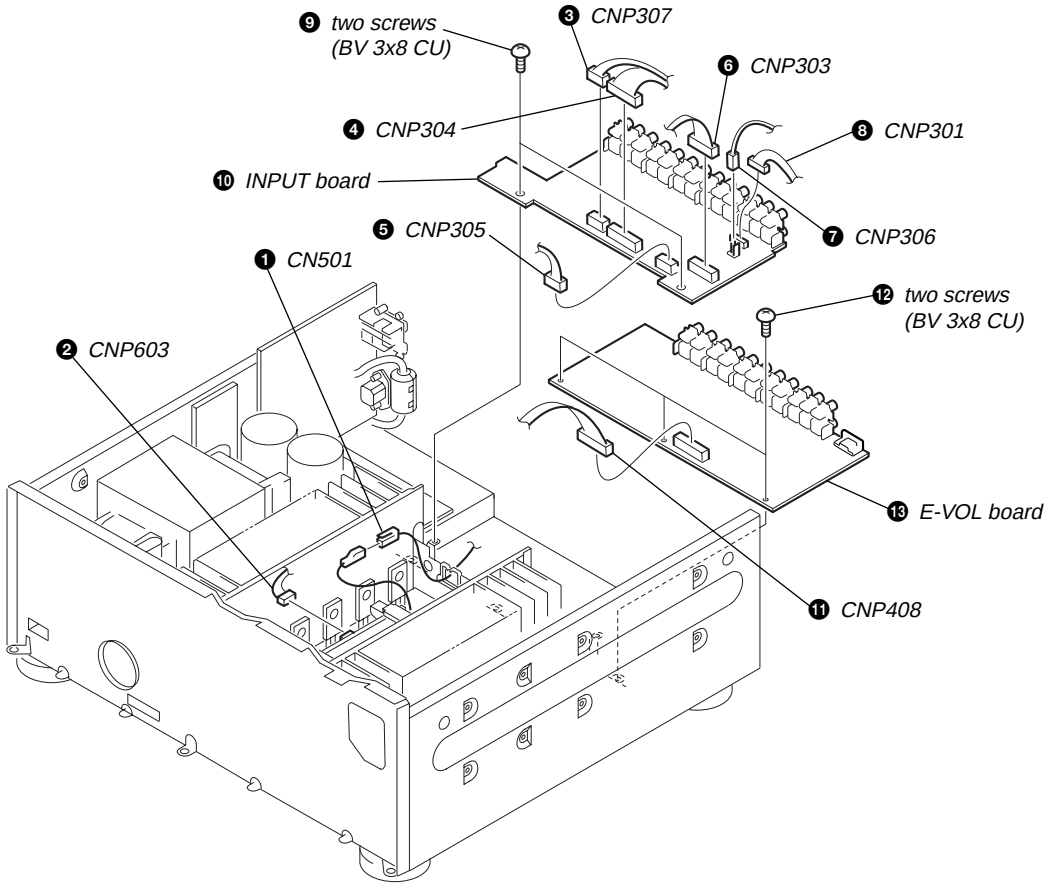
4-4. BACK PANEL SECTION



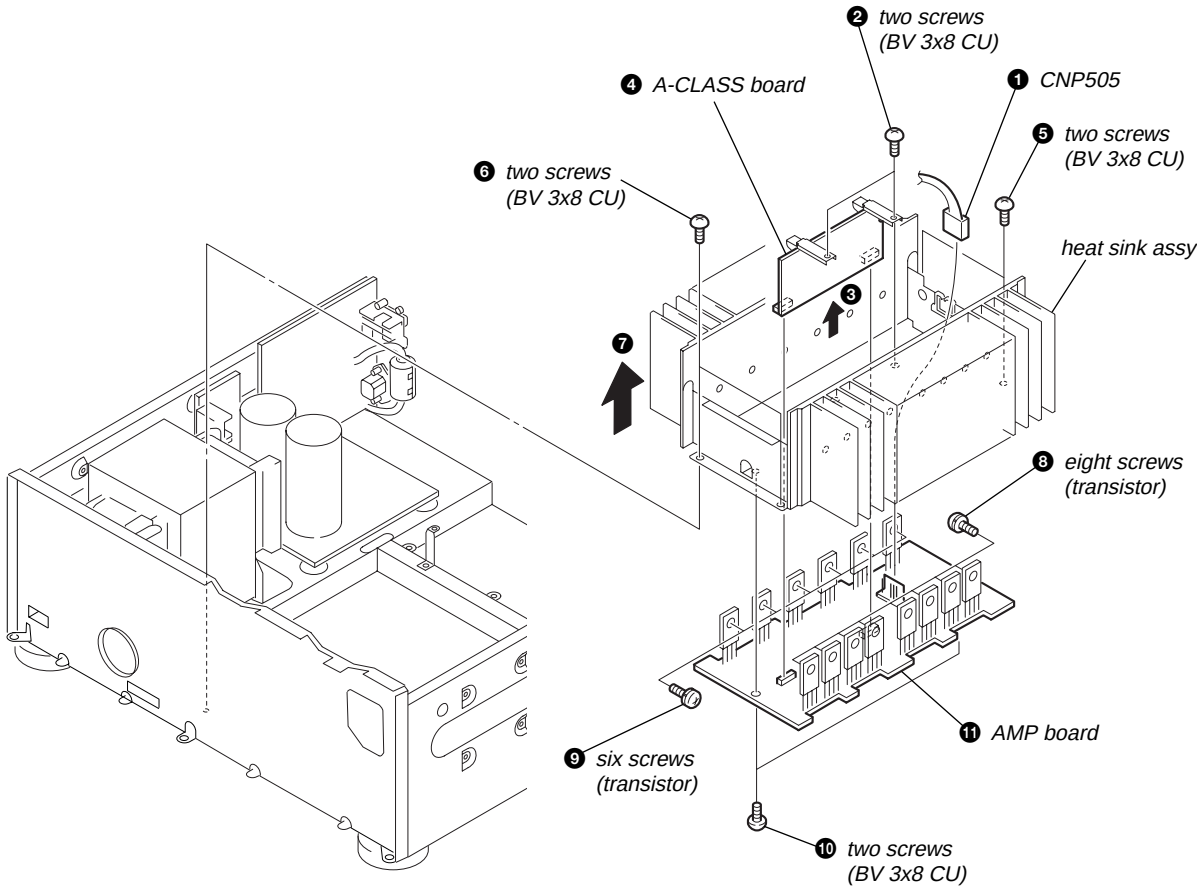
4-5. DIGITAL BOARD



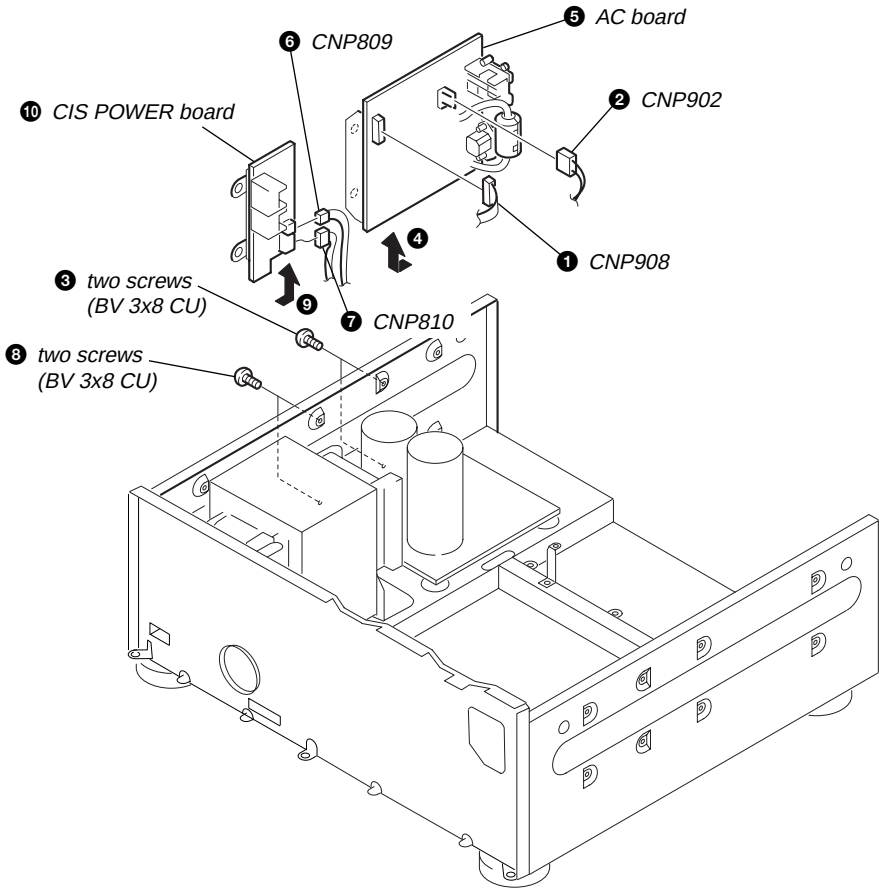
4-6. INPUT BOARD, E-VOL BOARD



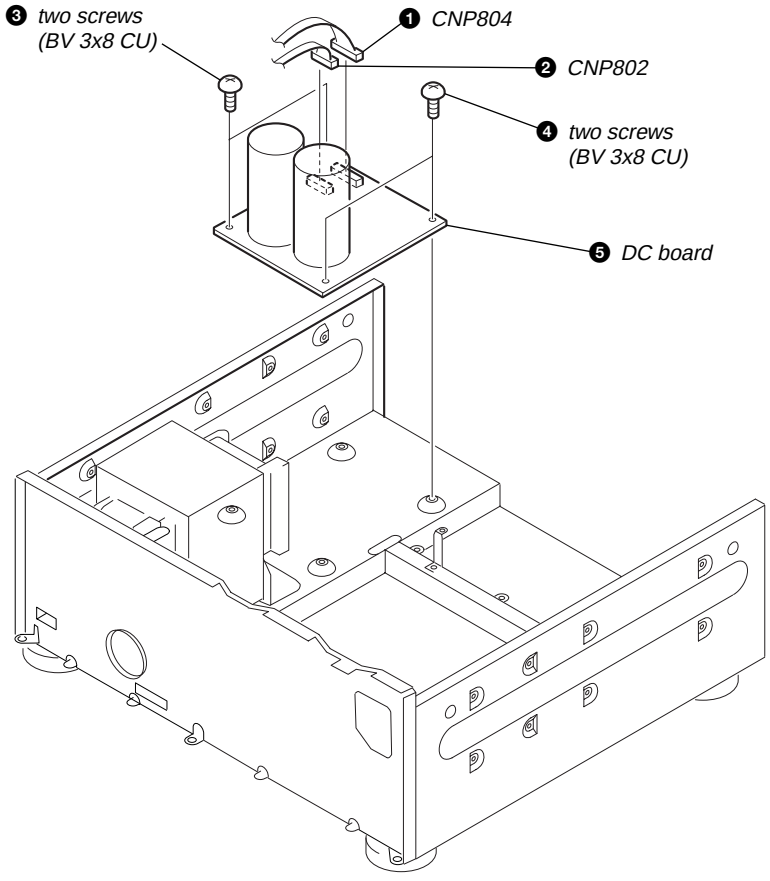
4-7. A-CLASS BOARD, AMP BOARD



4-8. AC BOARD, CIS POWER BOARD



4-9. DC BOARD



SECTION 5
ELECTRICAL ADJUSTMENT

[IDLING CURRENT ADJUSTMENT]

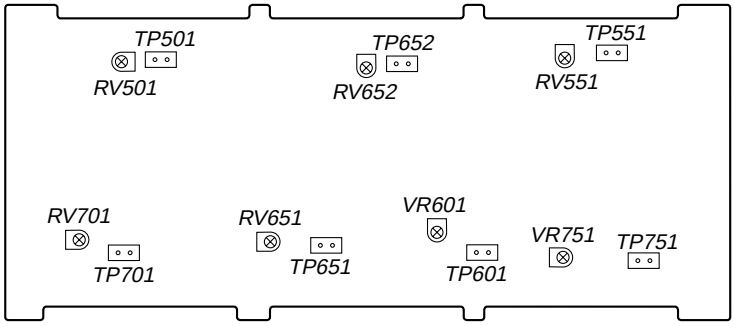
Measuring Instrument: Digital voltmeter

Adjustment Procedure: Adjust the respective adjustment elements so that the voltage (absolute value) across the corresponding testpoints satisfies the specification.

Channel	Test point	Adjustment element	Specification
FRONT L	TP501	RV501	4.0mV±0.5mV
FRONT R	TP551	RV551	
CENTER	TP652	RV652	
SURROUND L	TP701	RV701	
SURROUND R	TP751	RV751	
SURR BACK L	TP651	RV651	
SURR BACK R	TP601	RV601	

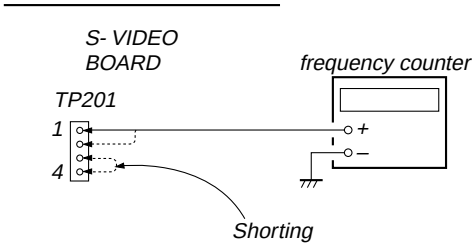
Adjustment Location:

[AMP BOARD]



[OSD ADJUSTMENT]

Measuring Instrument: frequency counter



Procedure:

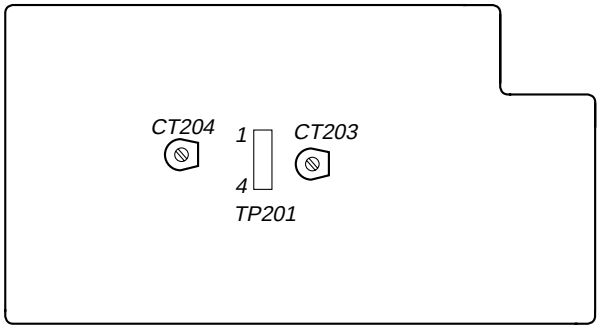
1. Connect the frequency counter to check connector (TP201) of the S VIDEO board.
2. Connect between Pin ③ to Pin ④ of TP201 by lead wire.
3. Adjust the respective adjustment element so that the frequency counter read specification.

Adj.	MODEL		Adjustment element	measurement point	Specification
I	VA333ES	NTSC	CT202 (CLOCK BOARD)	TP201 Pin ①	3.579545MHz ±50Hz
		PAL	CT201 (CLOCK BOARD)		4.433618MHz ±50Hz
	DA4ES, DA7ES		CT203 (S-VIDEO BOARD)		3.57954MHz ±50Hz
II	All models		CT204 (S-VIDEO BOARD)	TP201 Pin ②	7.20MHz ±0.01MHz

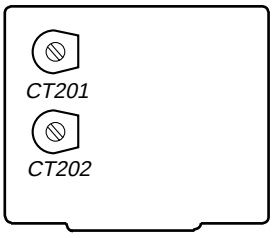
4. After check, remove the lead wire connected in step 2.

Adjustment Location:

[S-VIDEO BOARD]



[CLOCK BOARD]



SECTION 6
DIAGRAMS

6-1. IC PIN FUNCTION

• IC1201 CXD9617R (AUDIO DSP) (DIGITAL BOARD (4/7))

Pin No.	Pin Name	I/O	Pin Description
1	VSS	—	Ground pin
2	XRST	I	Reset signal input
3	EXTIN	I	Not used. (connected to ground.) Master clock signal input
4	FS2	I	Not used. (connected to ground.)
5	VDDI	—	Power supply pin (+3.3 V)
6	FS1	I	Not used. (connected to ground.)
7	PLOCK	O	Not used. (open)
8	VSS	—	Ground pin
9	MCLK1	I	External crystal signal input (13.5 MHz)
10	VDDI	—	Power supply pin (+3.3 V)
11	VSS	—	Ground pin
12	MCLK2	O	External crystal signal output (13.5 MHz)
13	MS	I	Not used. (connected to ground.)
14	SCKOUT	O	Not used. (open) Audio clock signal output
15	LRCKI1	I	LRCK clock signal input
16	VDDE	—	Power supply pin (+3.3 V)
17	BCKI1	I	BCK clock signal input
18	SDI1	I	Audio serial data signal input
19	LRCKO	O	LRCK clock signal output
20	BCKO	O	BCK clock signal output
21	VSS	—	Ground pin
22	KFSIO	I	KFSIO signal input
23	SDO1	O	Audio serial data signal output 1
24	SDO2	O	Audio serial data signal output 2
25	SDO3	O	Audio serial data signal output 3
26	SDO4	O	Audio serial data signal output 4
27	SPDIF	O	Not used. (open) S/P DIF signal output
28	LRCKI2	I	LRCK clock signal input
29	BCKI2	I	BCK clock signal input
30	SDI2	I	Audio serial data signal input
31	VSS	—	Ground pin
32	HACN	O	Host I/F acknowledge signal output
33	HDIN	I	Host I/F serial data signal input
34	HCLK	I	Host I/F serial clock signal input
35	HDOUT	O	Host I/F serial data signal output
36	HCS	I	Host I/F chip select signal input
37	SDCLK	O	Not used. (open)
38	CLKEN	O	Not used. (open)
39	RAS	O	Not used. (open)
40	VDDI	—	Power supply pin (+3.3 V)
41	VSS	—	Ground pin
42	CAS	O	Not used. (open)
43	DQM/OE0	O	Not used. (open)
44	CS0	—	Ground pin
45	WE0	O	External memory write enable signal output
46	VDDE	—	Power supply pin (+3.3 V)
47	WMD1	I	Not used. (connected to VDDE.) External memory wait mode signal input 1
48	VSS	—	Ground pin
49	WMD0	I	Not used. (connected to VDDE.) External memory wait mode signal input 0
50	PAGE2	O	External memory page select signal output
51	VSS	—	Ground pin

Pin No.	Pin Name	I/O	Pin Description
52	PAGE1	O	Not used. (open)
53	PAGE0	O	Not used. (open)
54	BOOT	I	Not used. (connected to ground.)
55	BTACT	O	Not used. (open)
56	BST	I	DSP BST signal input
57	MOD1	I	Not used. (connected to VDDE.)
58	MOD0	I	Not used. (connected to ground.)
59	EXLOCK	I	DIR error input from LC89056W (IC1101)
60	VDDI	—	Power supply pin (+3.3 V)
61	VSS	—	Ground pin
62, 63	A17,A16	O	Not used. (open)
64 to 66	A15-13	O	Address data output to RAM (IC1202)
67	GP10	O	BCK clock output to SSM Not used. (open)
68	GP9	O	GP signal output to MB91F155-2ESX100 (IC2001)
69	GP8	O	Audio signal output to LC89056W (IC1101)
70	VDDI	—	Power supply pin (+3.3 V)
71	VSS	—	Ground pin
72	D15/GP7	I/O	Data input/output to RAM (IC1202)
73	D14/GP6	I/O	Data input/output to RAM (IC1202)
74	D13/GP5	I/O	Data input/output to RAM (IC1202)
75	D12/GP4	I/O	Data input/output to RAM (IC1202)
76	VDDE	—	Power supply pin (+3.3 V)
77	D11/GP3	I/O	Data input/output to RAM (IC1202)
78	D10/GP2	I/O	Data input/output to RAM (IC1202)
79	D9/GP1	I/O	Data input/output to RAM (IC1202)
80	D8/GP0	I/O	Data input/output to RAM (IC1202)
81	VSS	—	Ground pin
82 to 85	A9-12	O	Address data output to RAM (IC1202)
86	TD0	I	Not used. (connected to VDDE.)
87	TMS	I	Not used. (connected to VDDE.)
88	XTRST	I	Not used. (connected to VDDE.)
89	TCK	I	Not used. (connected to VDDE.)
90	TDI	I	Not used. (connected to VDDE.)
91	VSS	—	Ground pin
92 to 97	A8-3	O	Address data output to RAM (IC1202)
98, 89	D7,D6	I/O	Data input/output to RAM (IC1202)
100	VDDI	—	Power supply pin (+3.3 V)
101	VSS	—	Ground pin
102 to 105	D5-2	I/O	Data input/output to RAM (IC1202)
106	VDDE	—	Power supply pin (+3.3 V)
107, 108	D1,D0	I/O	Data input/output to RAM (IC1202)
109, 110	A2,A1	O	Address data output to RAM (IC1202)
111	VSS	—	Ground pin
112	A0	O	Address data output to RAM (IC1202)
113	PM	I	PM signal input from MB91F155-2ESX100 (IC2001)
114	SDI3	I	Sound data input Not used. (open)
115	SDI4	I	Sound data input Not used. (open)
116	SYNC	I	Not used. (connected to VDDE.)
117	VSS	—	Ground pin
118	VSS	—	Ground pin
119	VSS	—	Ground pin
120	VDDI	—	Power supply pin (+3.3 V)

• **IC2001 MB91F155-2ESX100 (SYSTEM CONTROL) (DIGITAL BOARD (2/7))**

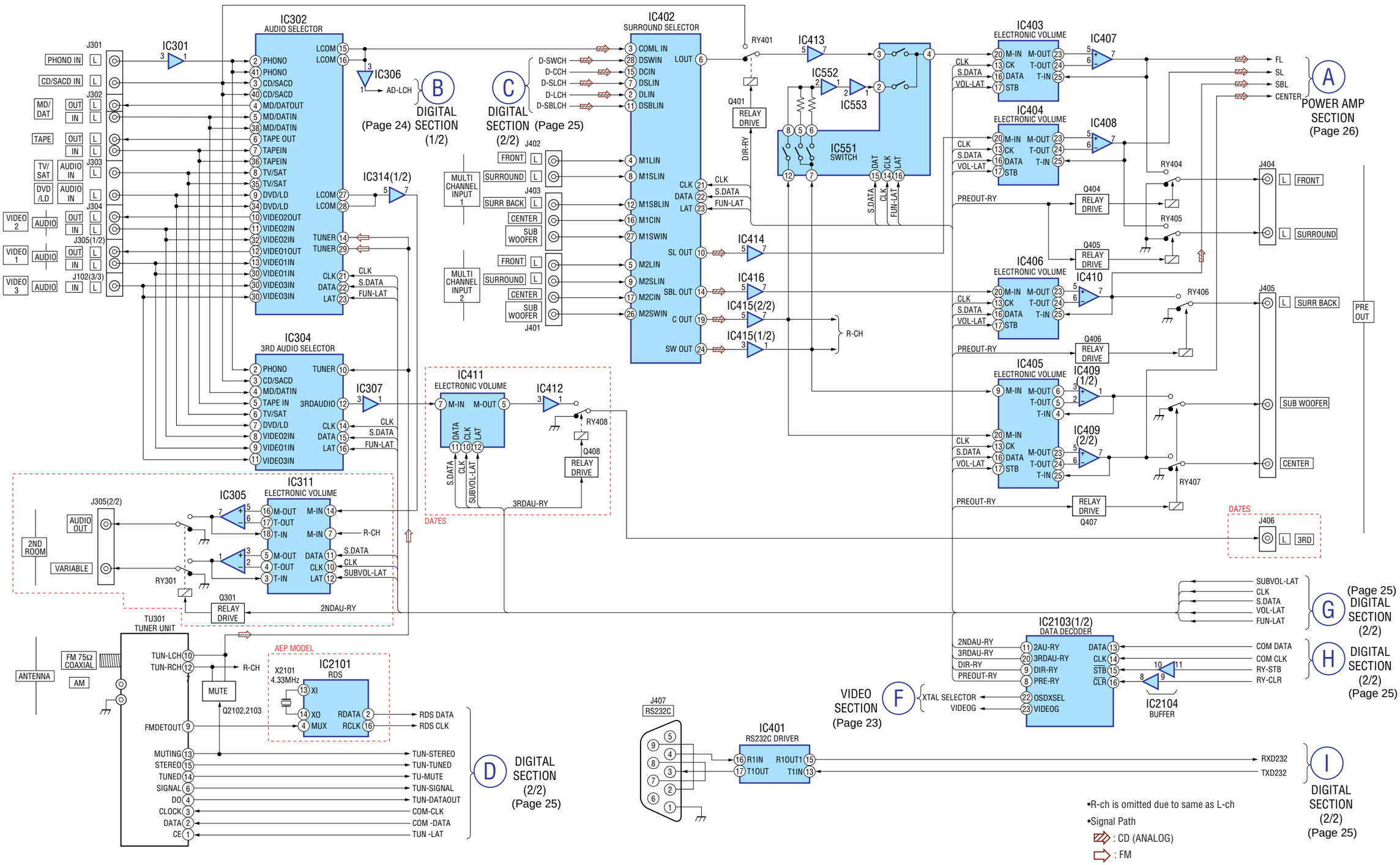
Pin No.	Pin Name	I/O	Pin Description
1	DSP1MOD1	O	SSM select signal output
2	XMODE	O	Mode signal output to LC89056W (IC1101)
3	CKSEL	O	Clock select signal output to LC89056W (IC1101)
4	DIR-CLK	O	Clock signal output to LC89056W (IC1101)
5	DIR-CE	O	Chip enable signal output to LC89056W (IC1101)
6	DIR-DI	O	Data output to LC89056W (IC1101)
7	DIR-DO	I	Data input from LC89056W (IC1101)
8	DIR-ERROR	I	Dir error input from LC89056W (IC1101)
9	VSS	—	Ground pin
10	DIR-DATAO	I	Dir data input
11	DIR-XSTATE	I	Dir state signal input
12	CLK-SW	O	Clock select signal output
13	DAMUTE	O	D/A output muting signal output
14	1XRST	O	Reset signal output to DSP1 (IC1201)
15	1PM	O	PM signal output to DSP1 (IC1201)
16	1GP9	I	GP signal input from DSO1 (IC1201)
17	1BST	O	BST signal output to DSP1 (IC1201)
18	1HCS	O	HCS signal output to DSP1 (IC1401)
19	1HDOUT	I	HD input from DSP1 (IC1201)
20	1HACN	I	HACN signal input from DSP1 (IC1201)
21	2XRST	O	BST signal output to DSP2 (IC1401)
22	2BST	O	Reset signal output to DSP2 (IC1401)
23	2PM	O	PM signal output to DSP2 (IC1401)
24	2EXLOCK	O	Ext lock signal output to DSP2 (IC1401)
25	3EXLOCK	O	Ext lock signal output to DSP3 (IC1501)
26	VSS	—	Ground pin
27	VCC	—	Power supply pin (+3.3 V)
28	2HACN	I	HACN signal input from DSP2 (IC1401)
29	2HDOUT	I	HD input from DSP2 (IC1401)
30	2HCS	O	HCS signal output to DSP2 (IC1401)
31	3XRST	O	Reset signal output to DSP3 (IC1501)
32	3BST	O	BST signal output to DSP3 (IC1501)
33	3PM	O	PM signal output to DSP3 (IC1501)
34	3HACN	I	HACN signal input from DSP3 (IC1501)
35	3HDOUT	I	HD input from DSP3 (IC1501)
36	3HCS	O	HCS signal output to DSP3 (IC1501)
37	DARST	O	Reset signal output to D/A converter (IC1602)
38	DA2LAT	O	Serial data latch signal output to D/A converter (IC1602)
39	DACLK	O	Serial clock output to D/A converter (IC1602)
40	DADATAOUT	O	Serial data output to D/A converter (IC1602)
41	DA2DATAIN	I	Serial data input from D/A converter (IC1602)
42	DA1LAT	O	Serial data latch signal output to D/A converter (IC1602)
43	DA1DATAIN	I	Serial data input from D/A converter (IC1602)
44	VSS	—	Ground pin
45	ADINT	O	INT signal output to AK5352 (IC1701)
46	DSP2 GP3	I	GP3 signal input from DSP2 (IC1401)
47	END FLAG	I	End flag input from UART (IC1901)
48	DSP3 GP3	I	GP3 signal input from DSP3 (IC1501)
49	MBUS-STS0	I	M-BUS status input
50	CTLAT	O	Control latch signal output to UART (IC1901)

Pin No.	Pin Name	I/O	Pin Description
51	A1O	O	Control A1 signal output to UART (IC1901)
52	MD2	I	Mode signal input
53	MD1	I	Connected to VCC.
54	MD0	I	Mode signal input
55	RSTX	I	System reset input
56	VCC	—	Power supply pin (+3.3 V)
57	X1	I	External crystal terminal (16.5 MHz)
58	X0	O	External crystal terminal (16.5 MHz)
59	VSS	—	Ground pin
60	STOP	I	AC power OFF signal input
61	RDS CLK	I	Clock signal input from RDS
62	POWER SW	I	Power switch input
63	MBUS-STS1	I	M-BUS status input
64	MBUS-STS2	I	M-BUS status input
65	MBUS-STS3	I	M-BUS status input
66	SIRCS	I	SIRCS serial data input
67	MBUS-STS4	I	M-BUS status input
68	VCC	—	Power supply pin (+3.3 V)
69	PWRY	O	AC power relay drive signal output
70	MSTO	O	M-BUS status output
71	HP	I	headphone connect signal input
72	PROT	I	Power amp protector signal input
73	ACMUTE	O	Power amp muting signal output
74	OSD-VSINC	I	V-sync signal input
75	NOUSE	O	Connected to GND.
76	OSD-LAT	O	OSD latch signal output
77	VCC	—	Power supply pin (+3.3 V)
78	RY-STB	O	STB signal output to NJU3716M (IC2103)
79	RY-CLR	O	Clear signal output to NJU3716M (IC2103)
80	FUN-LAT	O	Latch signal output to audio selector
81	VIDEO-RCK	O	RCK signal output to video selector
82	SUBVOL-LAT	O	Latch signal output
83	VOL-LAT	O	Latch signal output to EVR
84	TUN-TUNED	I	Tuned signal input from tuner (TU301)
85	TUN-STEREO	I	Stereo signal input from tuner (TU301)
86	TUN-LAT	O	Latch signal output to tuner (TU301)
87	TUN-DO	O	Serial data output to tuner (TU301)
88	TUN-MUTE	O	Mute signal output to tuner (TU301)
89	A1I	I	Control A1 signal input from UART (IC1901)
90	COM-CLK	O	Common clock output
91	COM-DATA	O	Common data output
92	RDS-DATA	I	Serial data input from RDS
93	RST TRG	O	Reset trigger output
94	PG3/OPTC	O	Digital (optical) input select signal output
95	PG4/OPTB	O	Digital (optical) input select signal output
96	TRG3	O	12 V trigger signal output
97	VCC	—	Power supply pin (+3.3 V)
98	VSS	—	Ground pin
99	EEPROM SDA	I/O	Serial data input/output to EEPROM (IC2002)
100	EEPROM SCL	O	Clock output to EEPROM (IC2002)

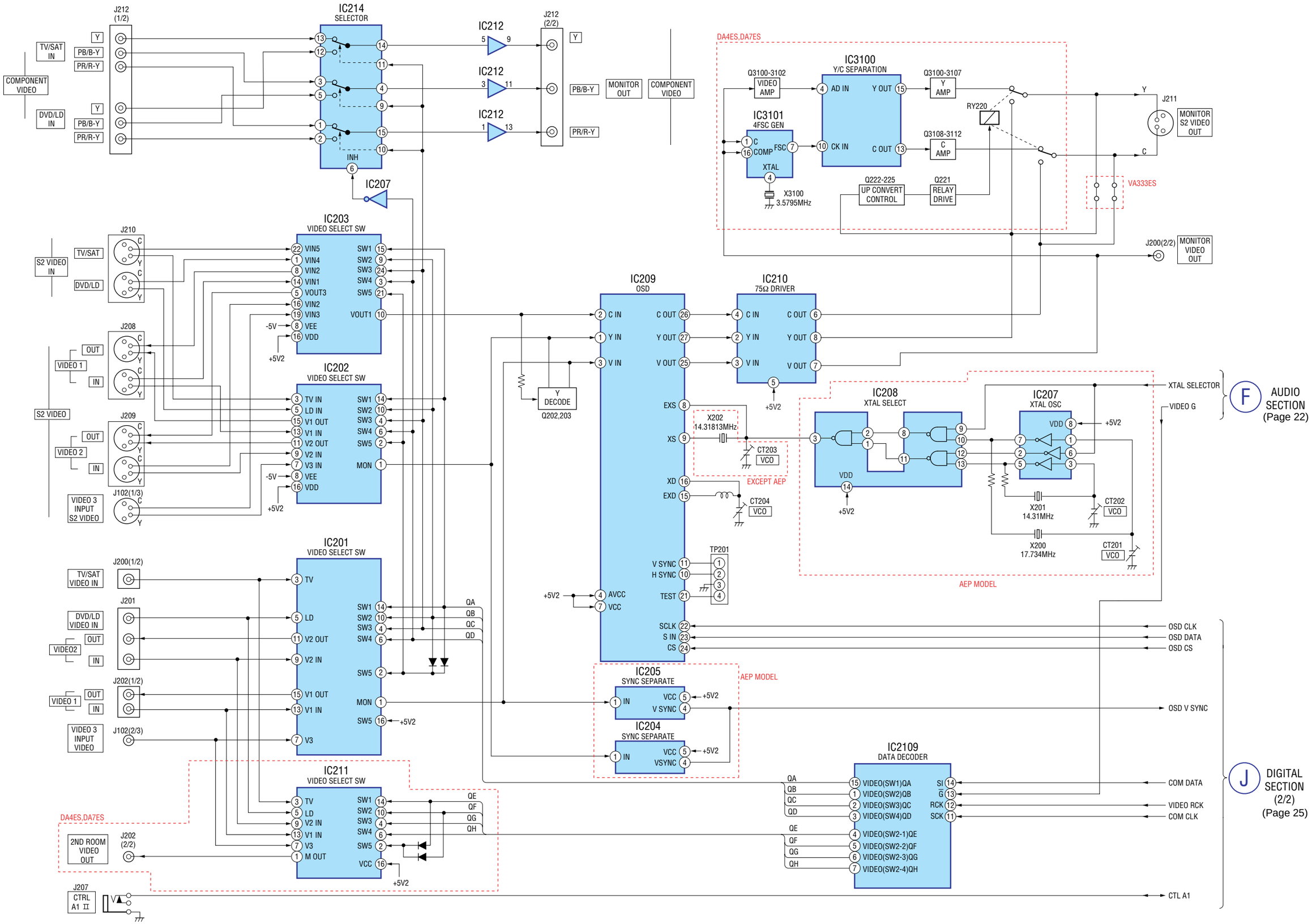
Pin No.	Pin Name	I/O	Pin Description
101	VSS	—	Ground pin
102	HCLK	O	H clock output to all DSP
103	HDIN	O	H data output to all DSP
104	FR-ASP	I	Speaker select switch signal input
105	OSD-CLK	O	Clock output
106	OSD-DAT	O	Serial data output
107	TRG2	O	12 V trigger signal output
108	TRGMAIN	O	12 V trigger main signal output
109	SOT1	O	Serial data output to RS-232C (J407)
110	SIN1	I	Serial data input to RS-232C (J407)
111	FL CLK	O	Clock signal output to FL display (FL101)
112	FL DIN	O	serial data output to FL display (FL101)
113	FL LAT	O	Latch signal output to FL display (FL101)
114	FL CLR	O	Clear signal output to FL display (FL101)
115	FR-BSP	I	Speaker select switch signal input
116	JOGUP	I	JOG dial up signal input
117	JOGDOWN	I	JOG dial down signal input
118	FUNCUP	I	Function dial up signal input
119	FUNCDWN	I	Function dial down signal input
120	VOLUP	O	Volume dial up signal output
121	VOLDWN	O	Volume dial down signal output
122	VCC	—	Power supply pin (+3.3 V)
123	OPTA	O	Digital (optical) input select signal output
124	LEDCLR	O	Clock output to LED driver
125	LEDSTB	O	Strobe signal output toLED driver
126	DAVS (VSS)	—	Ground pin
127	DAVC (VCC)	—	Power supply pin (+3.3 V)
128	AVCC (VCC)	—	Power supply pin (+3.3 V)
129	AVRH (VCC)	—	Power supply pin (+3.3 V)
130	AVRL (VSS)	—	Ground pin
131	AVSS (VSS)	—	Ground pin
132	AD1	I	Key function A/D input
133	AD2	I	Key function A/D input
134	AD3	I	Key function A/D input
135	AD4	I	Key function A/D input
136	AD5	I	Key function A/D input
137	VERSION	I	Version set terminal
138	RDS SIGNAL	I	RDS signal input
139	NOUSE	I	Connected to GND.
140	VCC2	—	Power supply pin (+3.3 V)
141	BACKUP	I	Connected to VCC.
142	XOA	O	AEP model: Not used. (open) Except AEP model: Connected to GND.
143	XIA	I	Not used. (open)
144	VSS	—	Ground pin

21

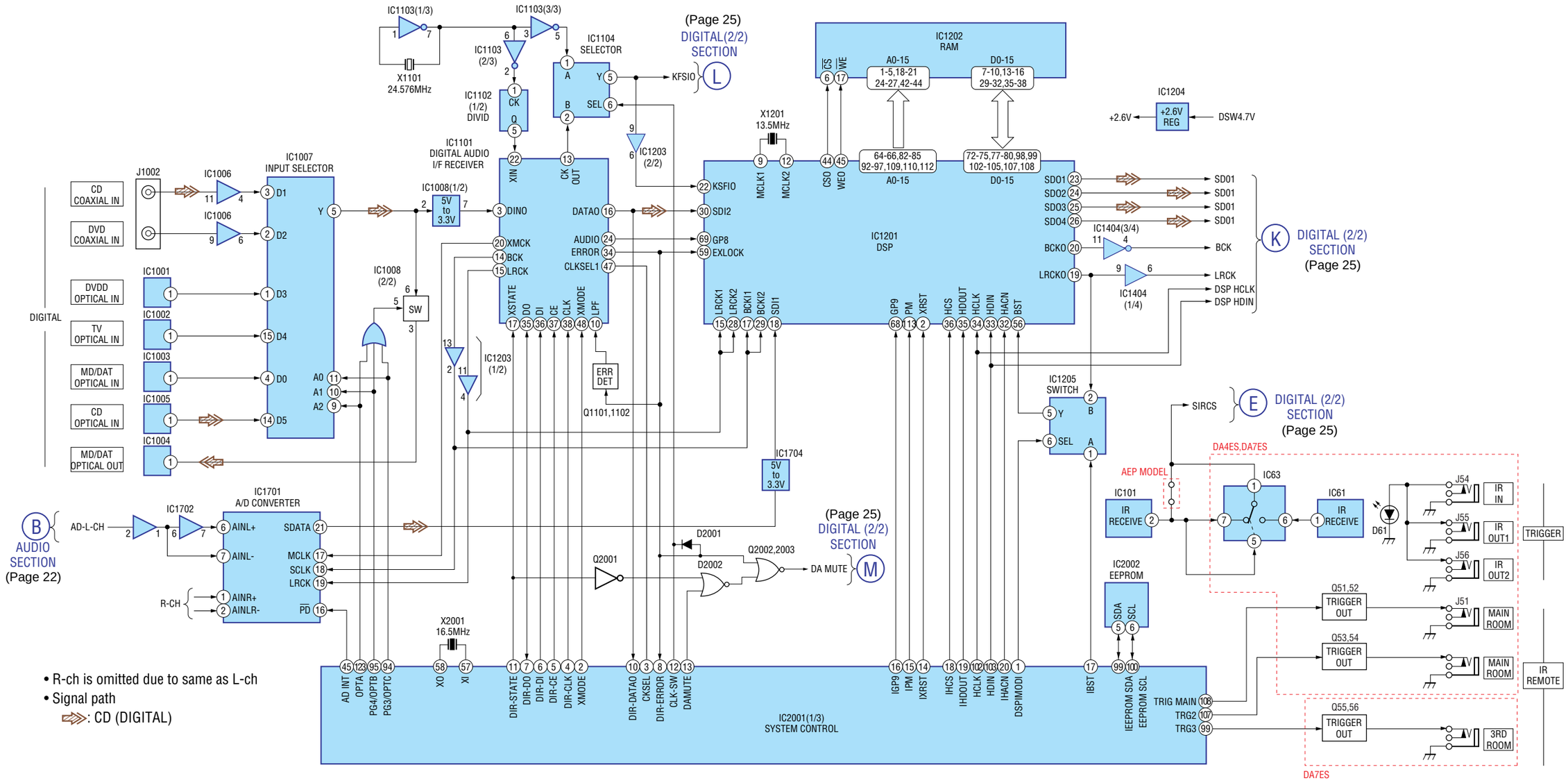
6-2. BLOCK DIAGRAM — AUDIO SECTION —



6-3. BLOCK DIAGRAM — VIDEO SECTION —

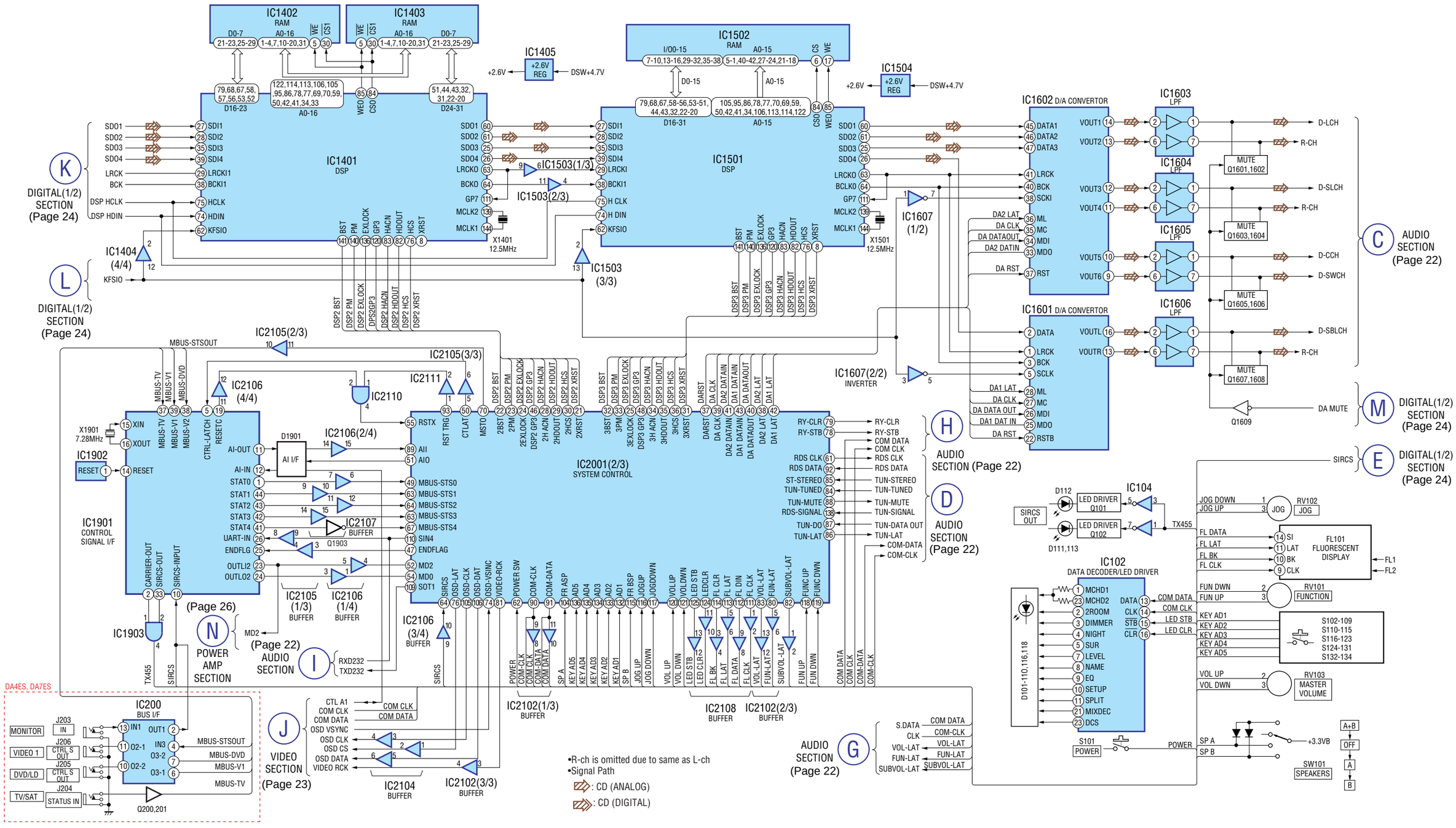


6-4. BLOCK DIAGRAM — DIGITAL SECTION (1/2) —

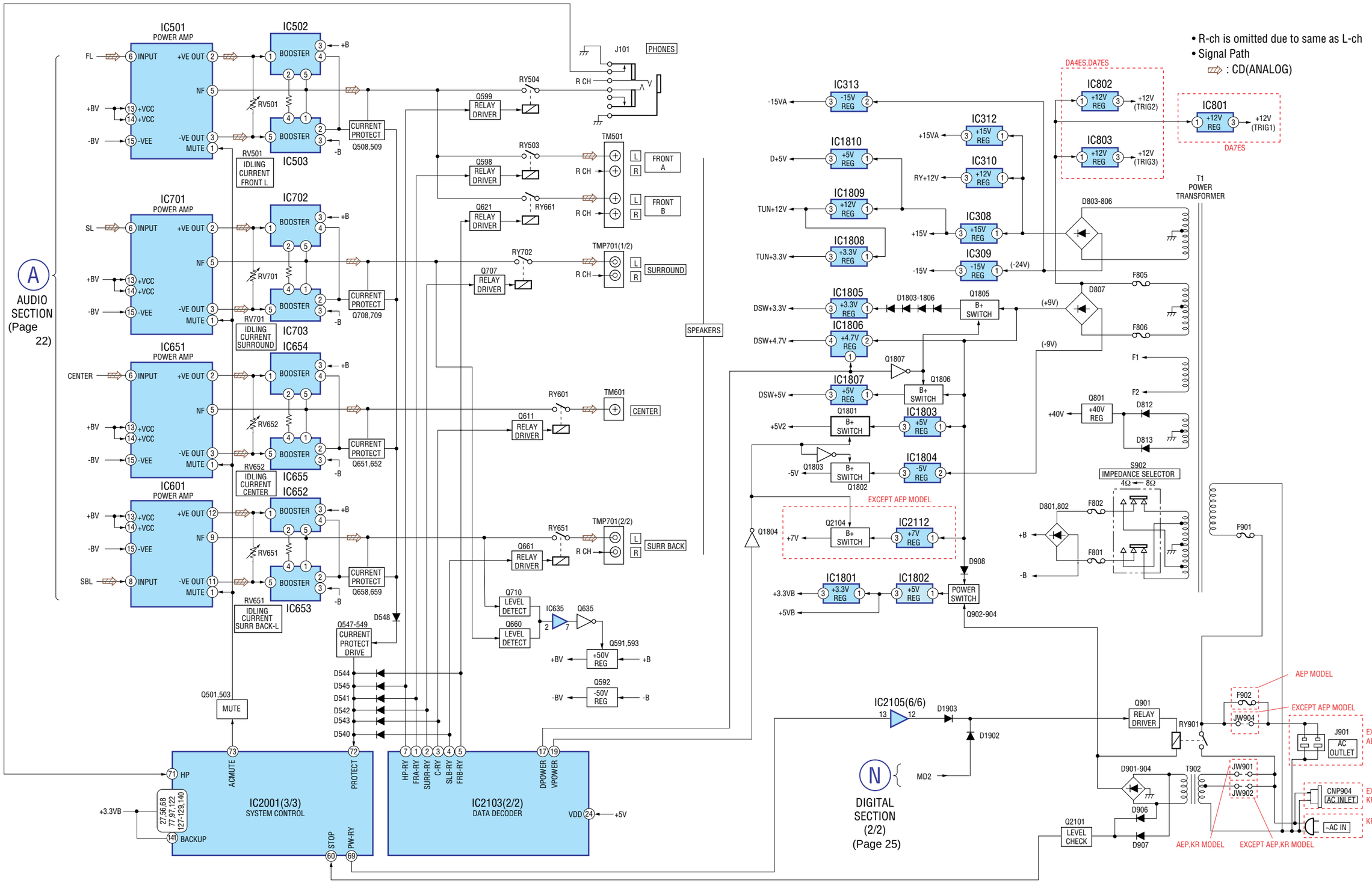


- R-ch is omitted due to same as L-ch
- Signal path
  ⇉: CD (DIGITAL)

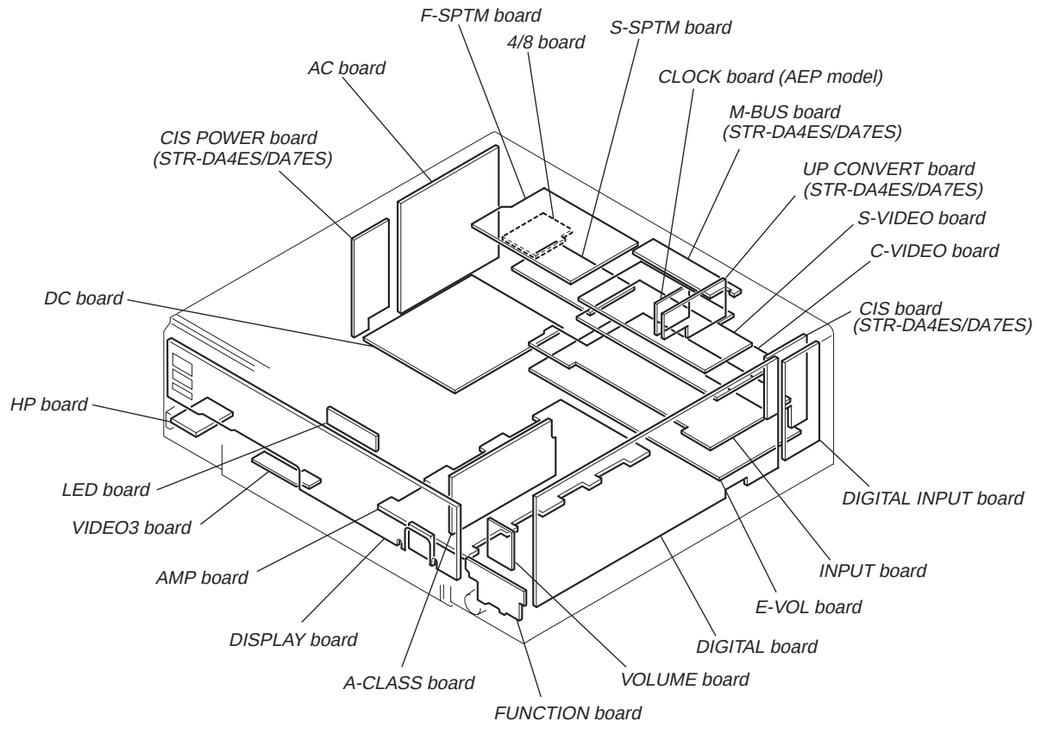
6-5. BLOCK DIAGRAM — DIGITAL SECTION (2/2) —



6-6. BLOCK DIAGRAM — POWER AMP SECTION —



6-7. CIRCUIT BOARDS LOCATION



MEMO

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

- ▬ : B+ Line.
- ▬ ▬ : B– Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  * : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ⇨ : CD (ANALOG)
  ⇨ : CD (DIGITAL)
- Abbreviation
  CND : Canadian model.
  TW : Taiwan model.
  KR : Korea model.

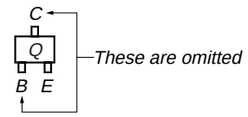
For printed wiring boards.

Note:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ○ : Through hole.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.



These are omitted

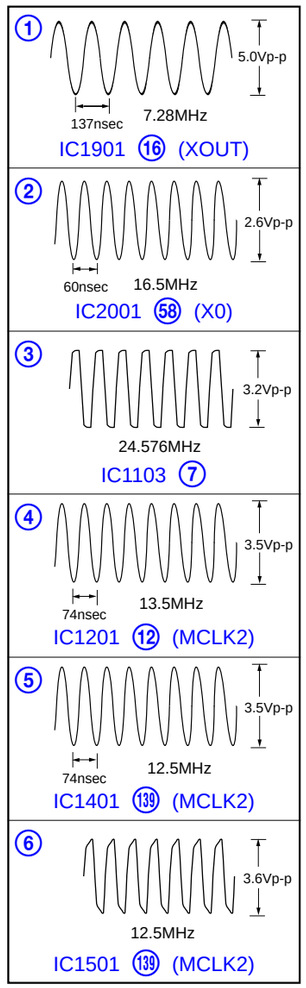
These are omitted

These are omitted

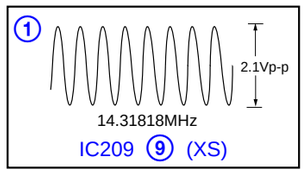
- Abbreviation
  CND : Canadian model.
  TW : Taiwan model.
  KR : Korea model.

• Waveforms

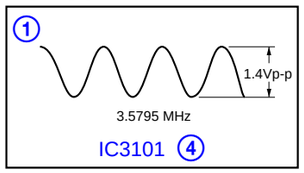
– DIGITAL Board –



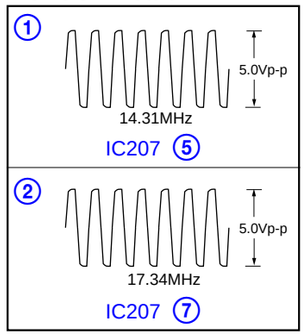
– S-VIDEO Board –



– UP CONVERT Board –

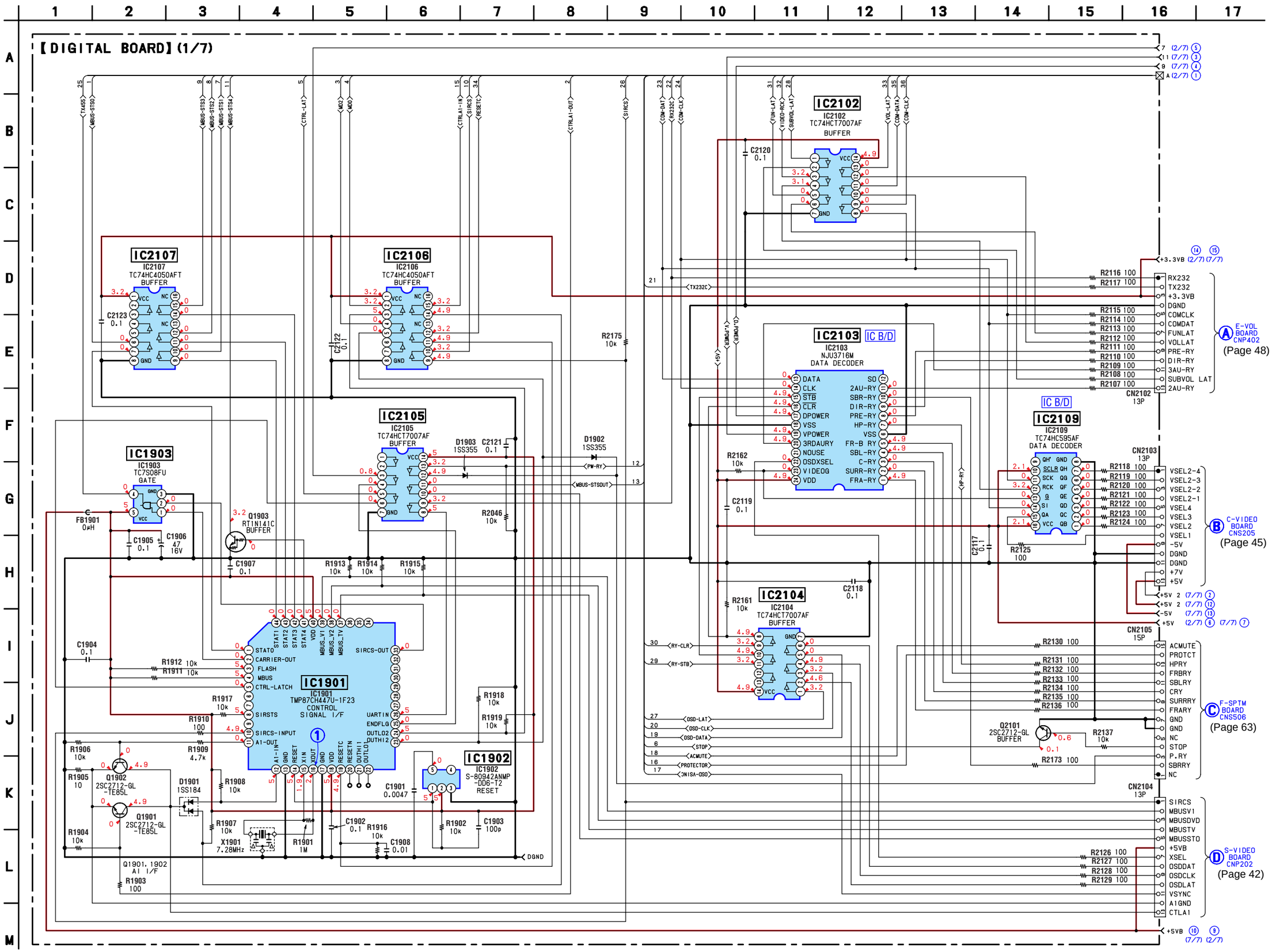


– CLOCK Board –



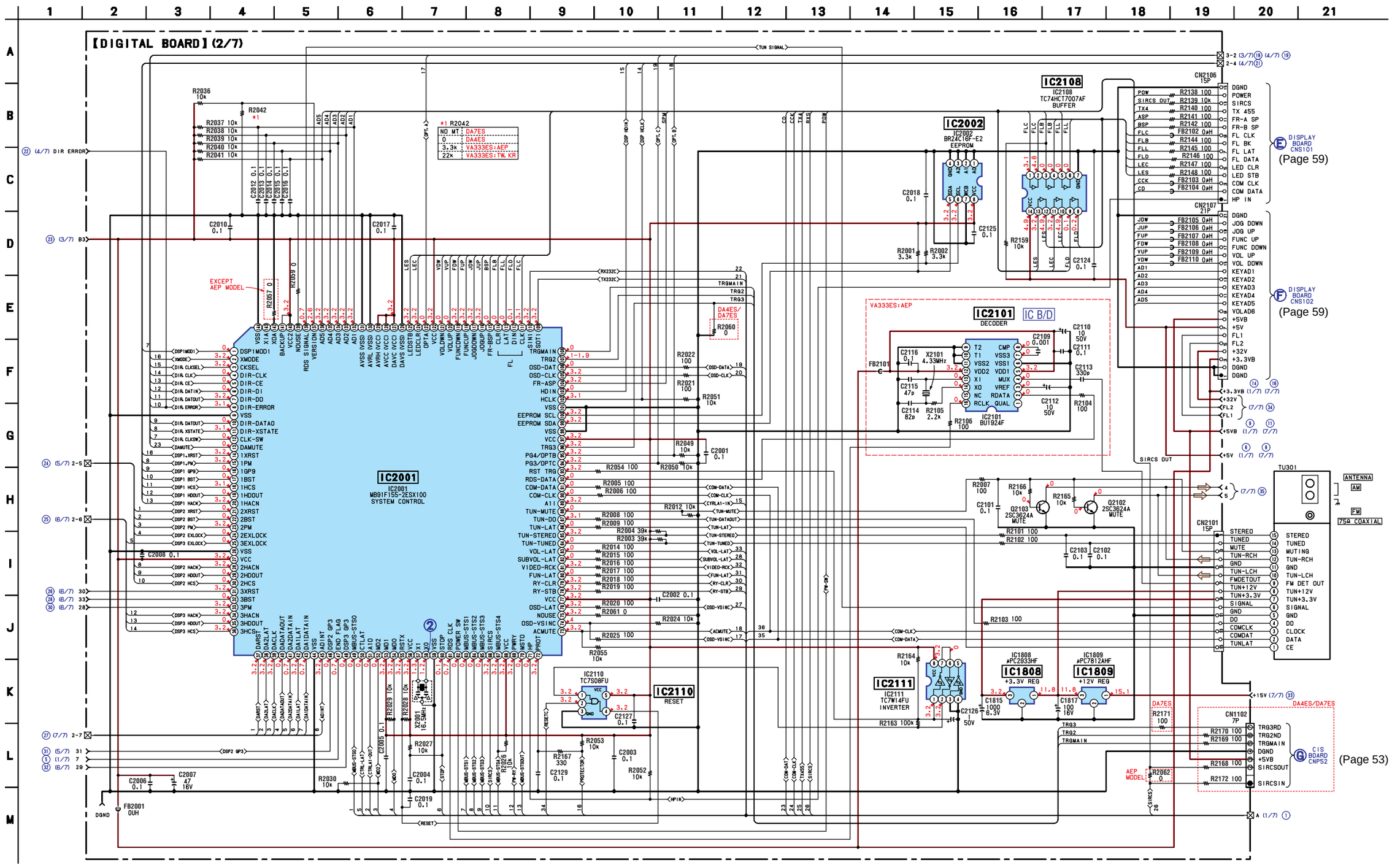
6-8. SCHEMATIC DIAGRAM — DIGITAL SECTION (1/7) —

• Refer to page 28 for Waveform.
• Refer to page 66 for IC Block Diagrams.



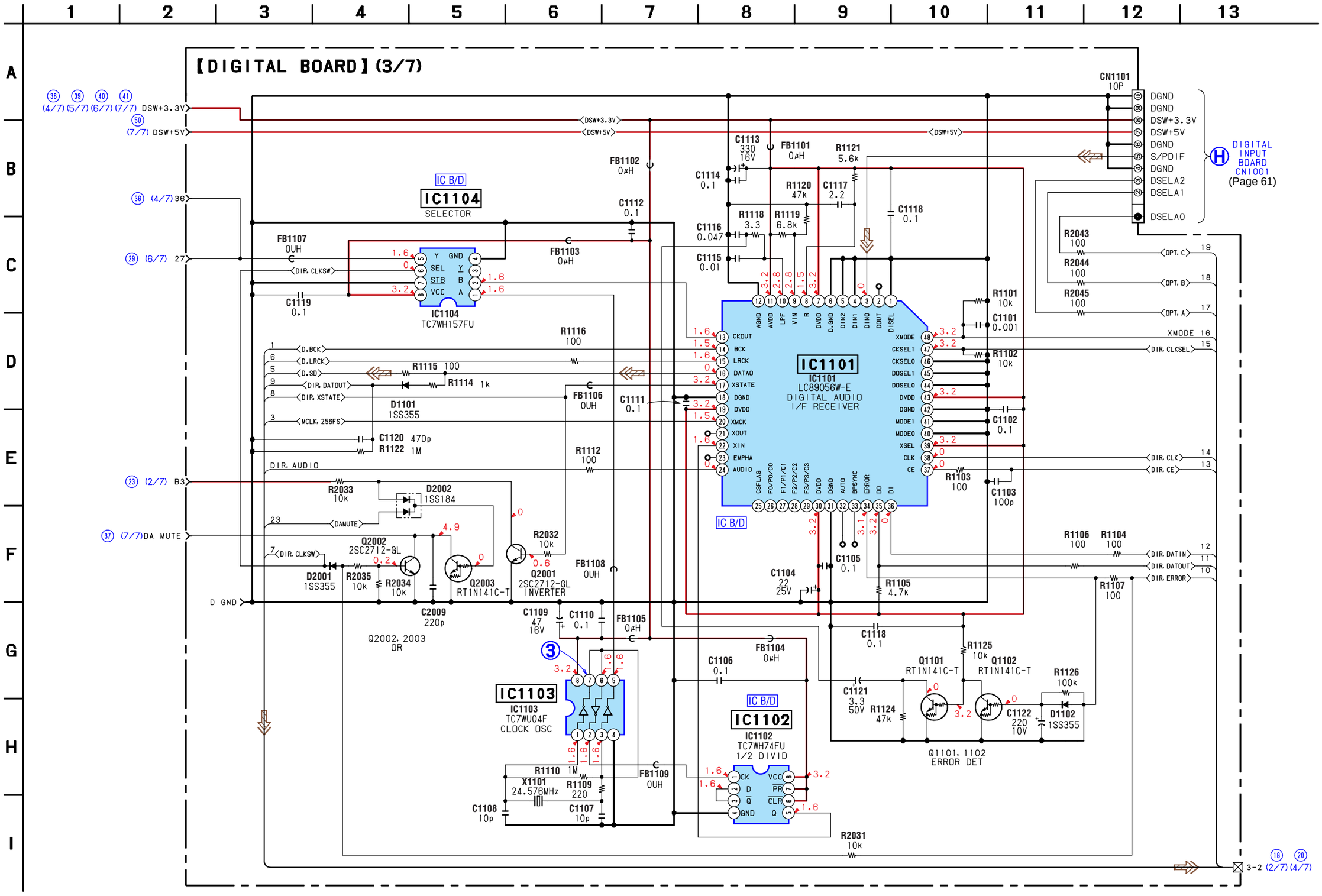
6-9. SCHEMATIC DIAGRAM — DIGITAL SECTION (2/7) —

• Refer to page 28 for Waveform.
• Refer to page 66 for IC Block Diagram.



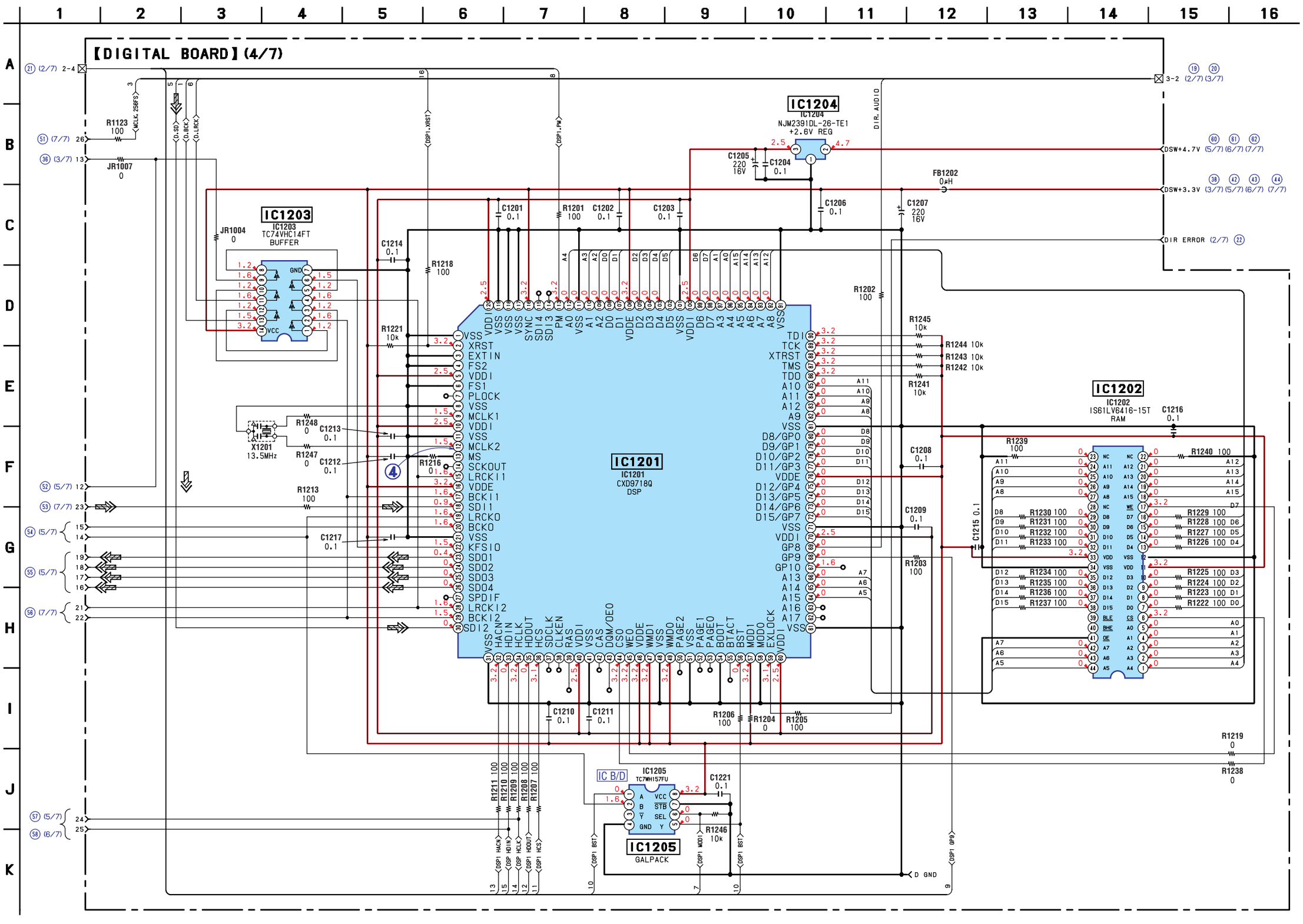
6-10. SCHEMATIC DIAGRAM — DIGITAL SECTION (3/7) —

• Refer to page 28 for Waveform.
• Refer to page 66 for IC Block Diagrams.

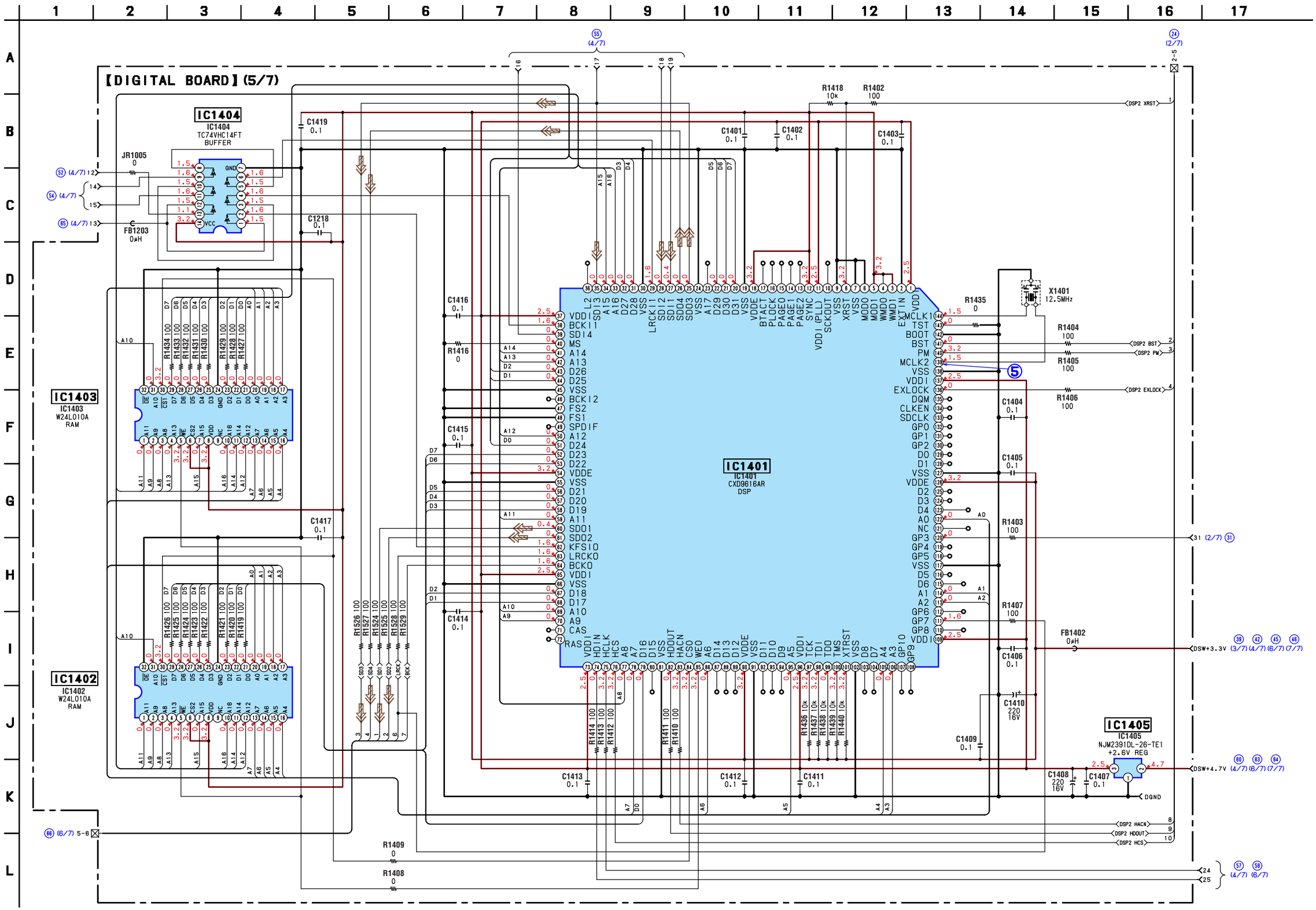


6-11. SCHEMATIC DIAGRAM — DIGITAL SECTION (4/7) —

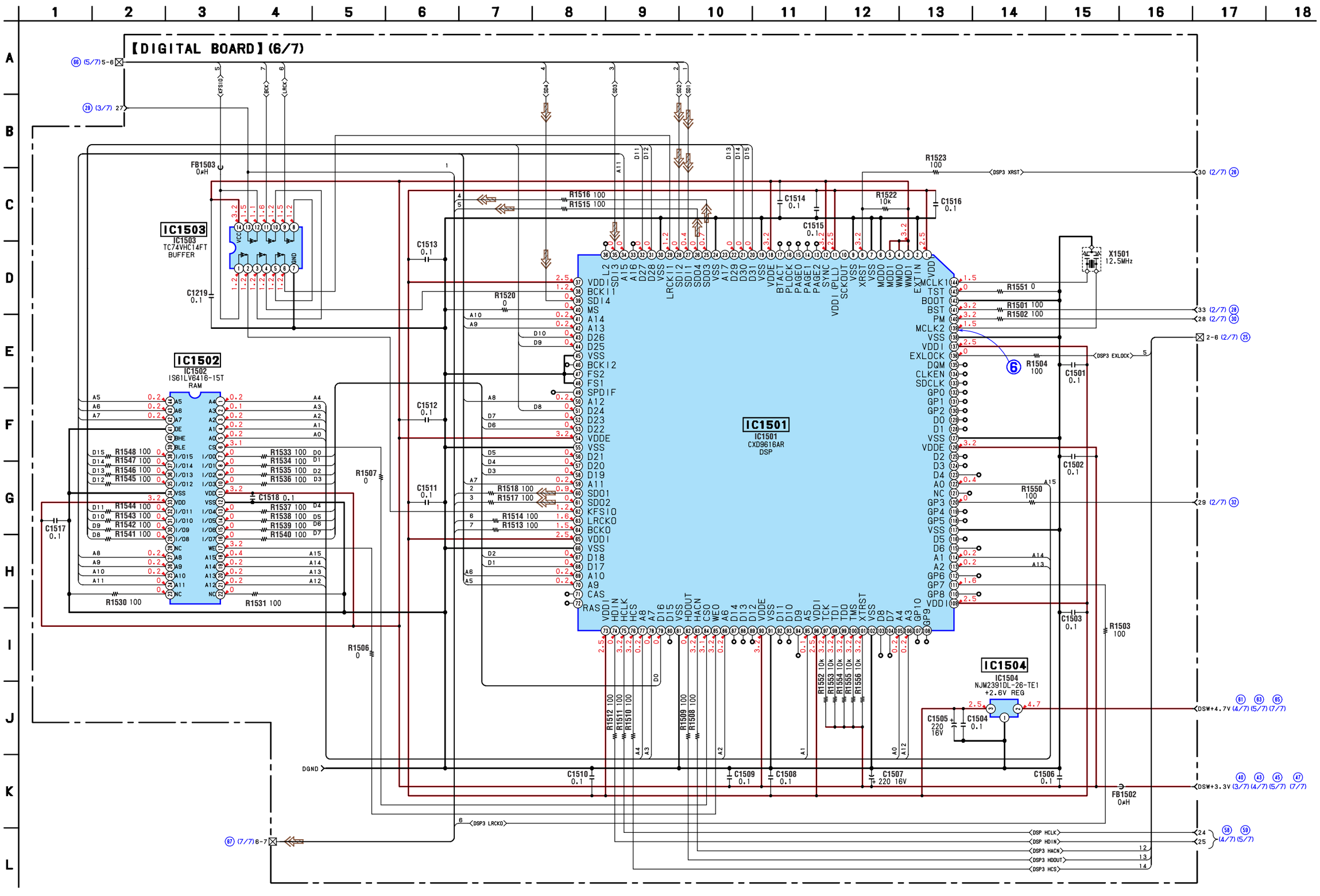
• Refer to page 28 for Waveform.
• Refer to page 66 for IC Block Diagram.



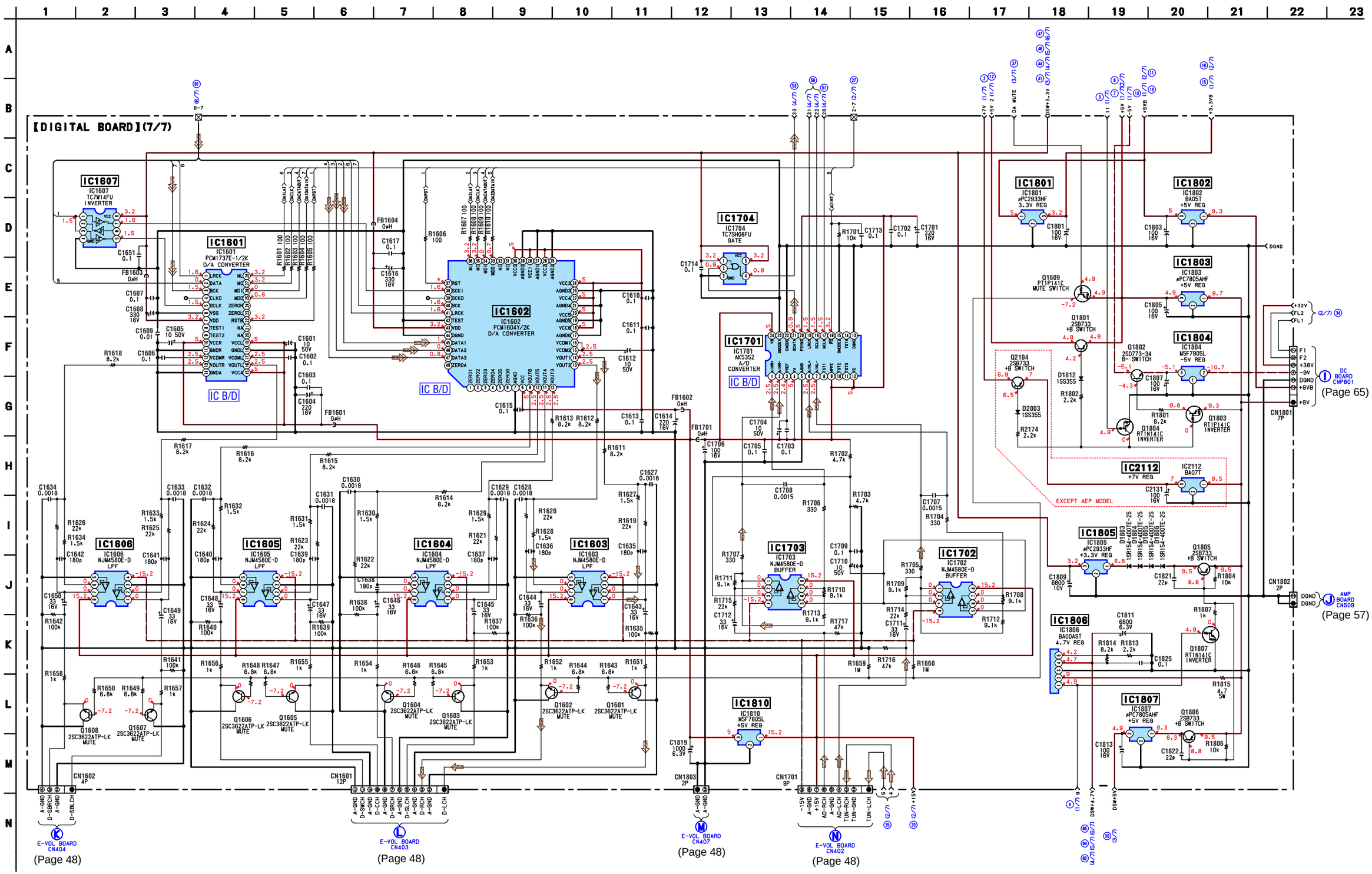
6-12. SCHEMATIC DIAGRAM — DIGITAL SECTION (5/7) — • Refer to page 28 for Waveform.



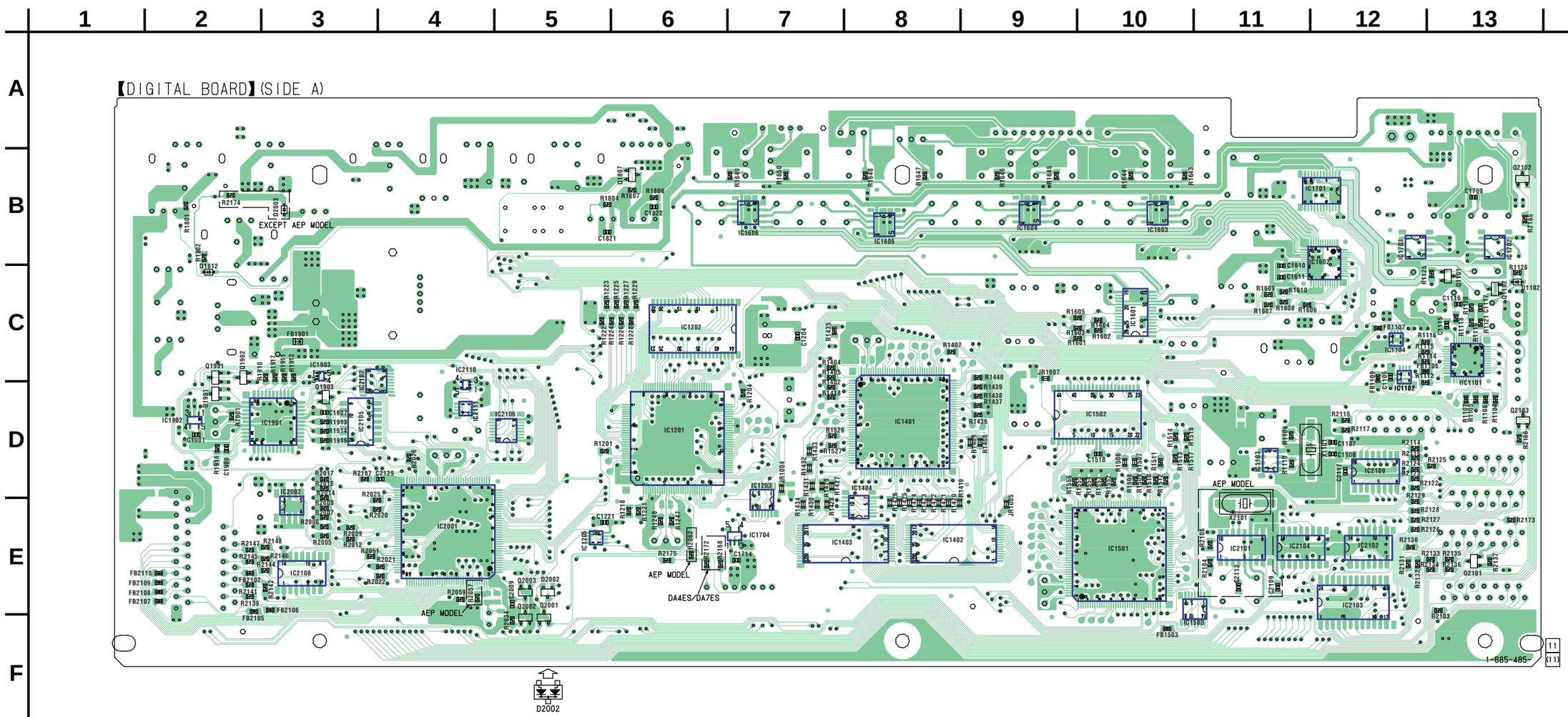
6-13. SCHEMATIC DIAGRAM — DIGITAL SECTION (6/7) — • Refer to page 28 for Waveform.



6-14. SCHEMATIC DIAGRAM — DIGITAL SECTION (7/7) — • Refer to page 66 for IC Block Diagrams.



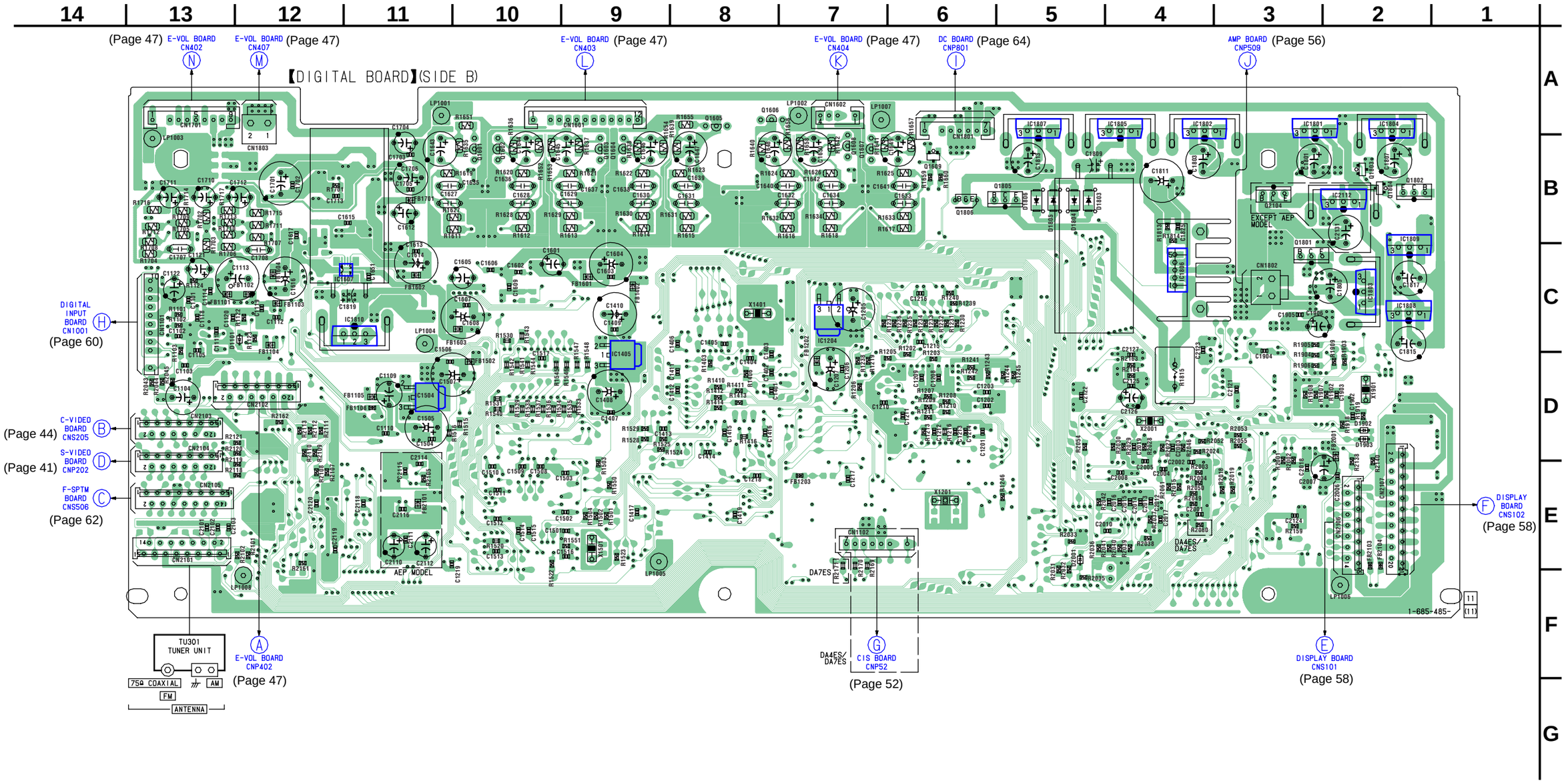
6-15. PRINTED WIRING BOARD — DIGITAL SECTION — • Refer to page 27 for Circuit Boards Location.



• **Semiconductor Location**

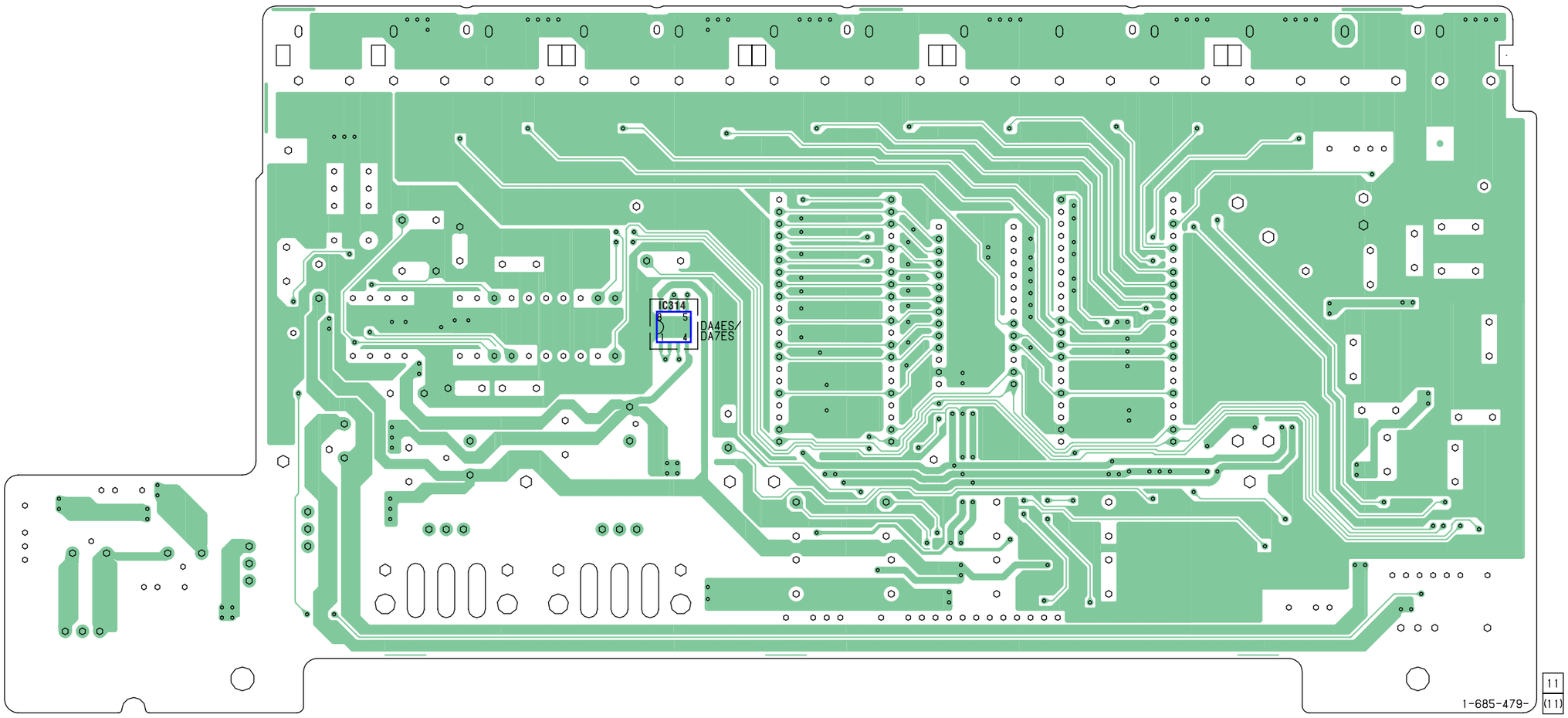
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
(D1101)	C-12	IC1203	D-7	IC1702	B-13	IC2103	E-12	(Q1608)	B-7
D1102	C-13	(IC1204)	C-7	IC1703	B-12	IC2104	E-11	(Q1609)	B-6
(D1803)	B-5	IC1205	E-5	IC1704	E-7	IC2105	D-3	(Q1801)	C-3
(D1804)	B-5	IC1401	D-8	(IC1801)	A-3	IC2106	D-5	(Q1802)	B-2
(D1805)	B-5	IC1402	E-8	(IC1802)	A-4	IC2107	C-3	(Q1803)	B-2
(D1806)	B-5	IC1403	E-7	(IC1803)	C-2	IC2108	E-3	(Q1804)	B-2
D1812	C-2	IC1404	E-8	(IC1804)	A-2	IC2109	D-12	(Q1805)	B-5
D1901	D-2	(IC1405)	D-9	(IC1805)	A-4	IC2110	C-4	(Q1806)	B-6
(D1902)	D-2	IC1501	E-10	(IC1806)	C-4	IC2111	D-4	Q1807	B-6
(D1903)	D-2	IC1502	D-10	(IC1807)	A-5	(IC2112)	B-2	Q1901	C-2
(D2001)	E-5	IC1503	E-10	(IC1808)	C-2			Q1902	C-2
D2002	E-5	(IC1504)	D-11	(IC1809)	B-2	Q1101	C-13	Q1903	D-3
D2003	B-3	IC1601	C-10	(IC1810)	C-11	Q1102	C-13	Q2001	F-5
		IC1602	B-12	IC1901	D-3	(Q1601)	B-10	Q2002	F-5
IC1101	C-13	IC1603	B-10	IC1902	D-2	(Q1602)	B-10	Q2003	E-5
IC1102	C-12	IC1604	B-9	IC1903	C-3	(Q1603)	B-9	Q2101	E-13
IC1103	D-11	IC1605	B-8	IC2001	E-4	(Q1604)	B-9	Q2102	B-13
IC1104	C-12	IC1606	B-7	IC2002	E-3	(Q1605)	A-8	Q2103	D-13
IC1201	D-6	(IC1607)	C-11	IC2101	E-11	(Q1606)	A-8	(Q2104)	B-3
IC1202	C-6	IC1701	B-12	IC2102	E-12	(Q1607)	B-7		

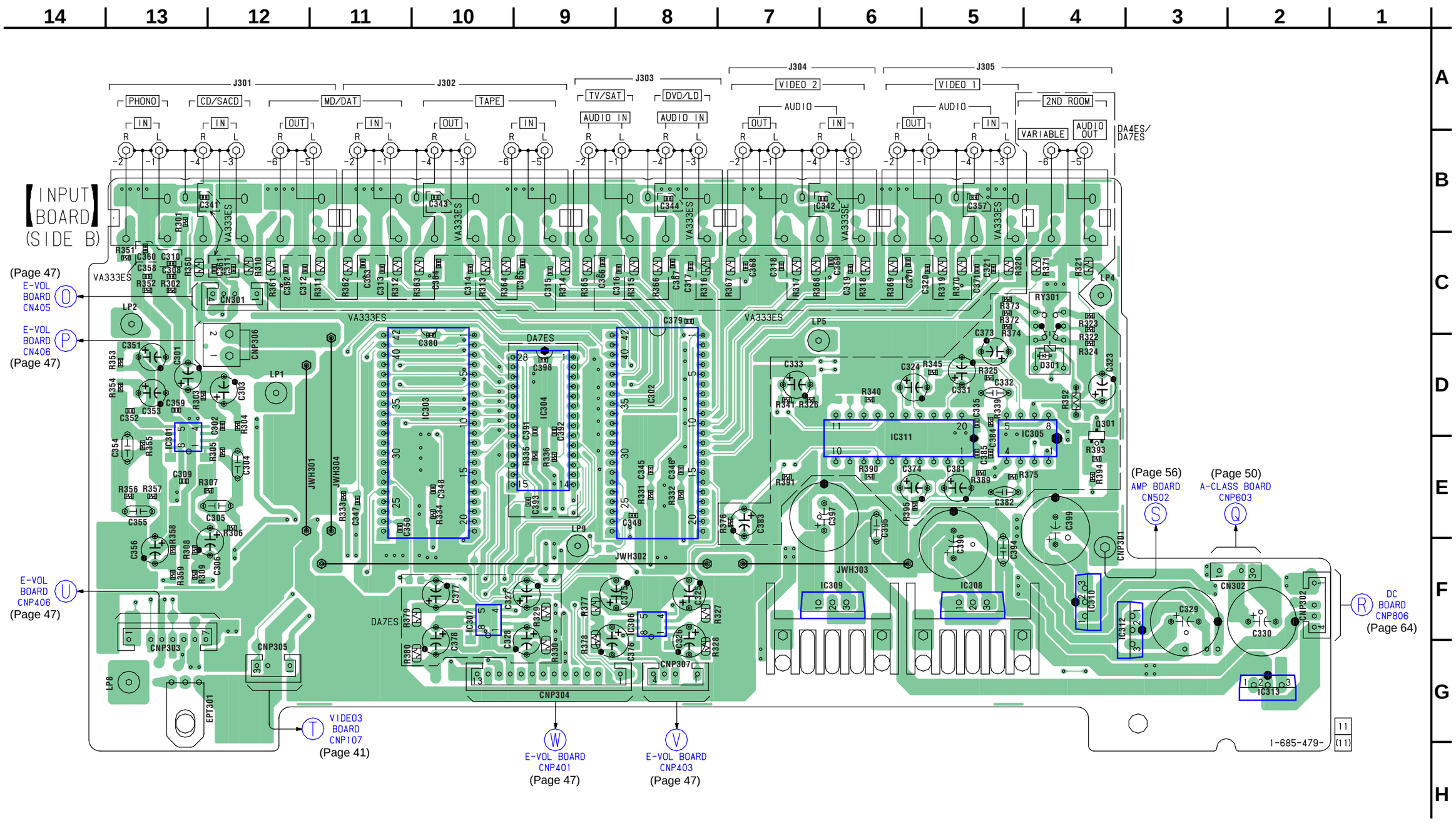
( ): SIDE B


14
13
12
11
10
9
8
7
6
5
4
3
2
1
A
B
C
D
E
F
G
【DIGITAL BOARD】(SIDE B)
(Page 47) E-VOL BOARD CN402
E-VOL BOARD CN407 (Page 47)
E-VOL BOARD CN403 (Page 47)
E-VOL BOARD CN404 (Page 47)
DC BOARD CNP801 (Page 64)
AMP BOARD CNP509 (Page 56)
DIGITAL INPUT BOARD CN100J (Page 60)
C-VIDEO BOARD CNS205 (Page 44)
S-VIDEO BOARD CNP202 (Page 41)
F-SPTM BOARD CNS506 (Page 62)
TU301 TUNER UNIT
75Ω COAXIAL
FM
AM
ANTENNA
E-VOL BOARD CNP402 (Page 47)
DA4ES/DA7ES
CIS BOARD CNP52 (Page 52)
DISPLAY BOARD CNS101 (Page 58)
DISPLAY BOARD CNS102 (Page 58)
EXCEPT AEP MODEL
AEP MODEL
DA7ES
DA4ES/DA7ES
1-685-485-11
(11)

6-16. PRINTED WIRING BOARD — INPUT SECTION — • Refer to page 27 for Circuit Boards Location.

【INPUT BOARD】(SIDE A)



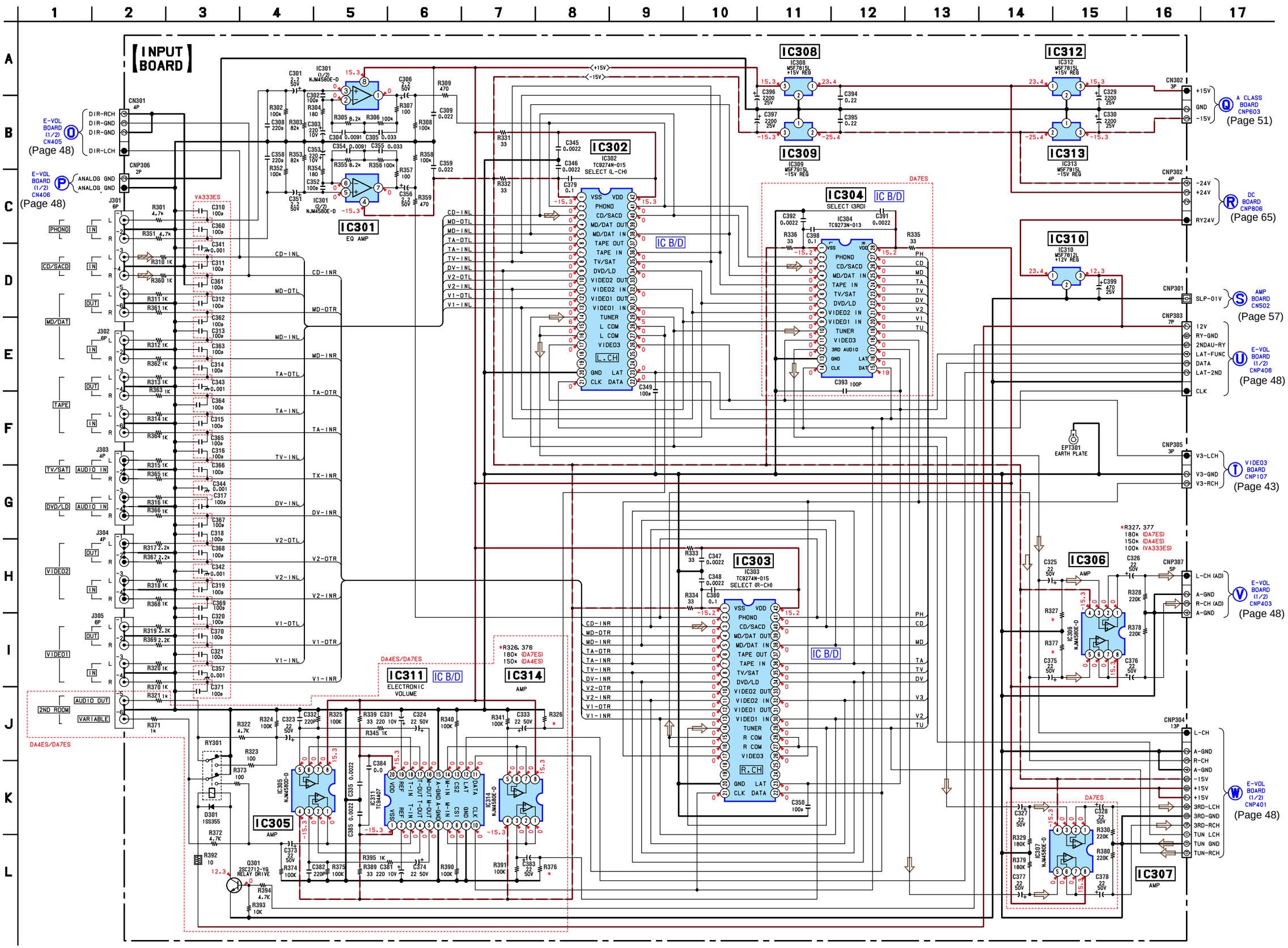

14 13 12 11 10 9 8 7 6 5 4 3 2 1
A B C D E F G H
【INPUT BOARD (SIDE B)】
J301 J302 J303 J304 J305
PHONO CD/SACD MD/DAT TAPE TV/SAT DVD/LD VIDEO 2 VIDEO 1 2ND ROOM
IN OUT AUDIO IN VARIABLE AUDIO OUT
DA4ES/ DA7ES
VA333ES
DA7ES
IC311 IC305 IC309 IC308 IC313 IC312
JWH301 JWH302 JWH303 JWH304
CNP303 CNP305 CNP304 CNP307 CNP301 CNP302
CN301 CN302
LP1 LP2 LP4 LP5 LP8 LP9
RY301 D301
EPT301
(Page 47) E-VOL BOARD CN405 (O)
E-VOL BOARD CN406 (P) (Page 47)
E-VOL BOARD CNP406 (U) (Page 47)
VIDEO3 BOARD CNP107 (T) (Page 41)
E-VOL BOARD CNP401 (W) (Page 47)
E-VOL BOARD CNP403 (V) (Page 47)
(Page 56) AMP BOARD CN502 (S)
(Page 50) A-CLASS BOARD CNP603 (Q)
DC BOARD CNP806 (R) (Page 64)
1-685-479-
11
(11)

• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D301	D-4	IC308	F-5
		IC309	F-6
IC301	D-13	IC310	F-4
IC302	D-8	IC311	D-6
IC303	D-10	IC312	F-4
IC304	D-9	IC313	G-2
IC305	D-4	(IC314)	E-7
IC306	F-8		
IC307	F-10	Q301	D-4

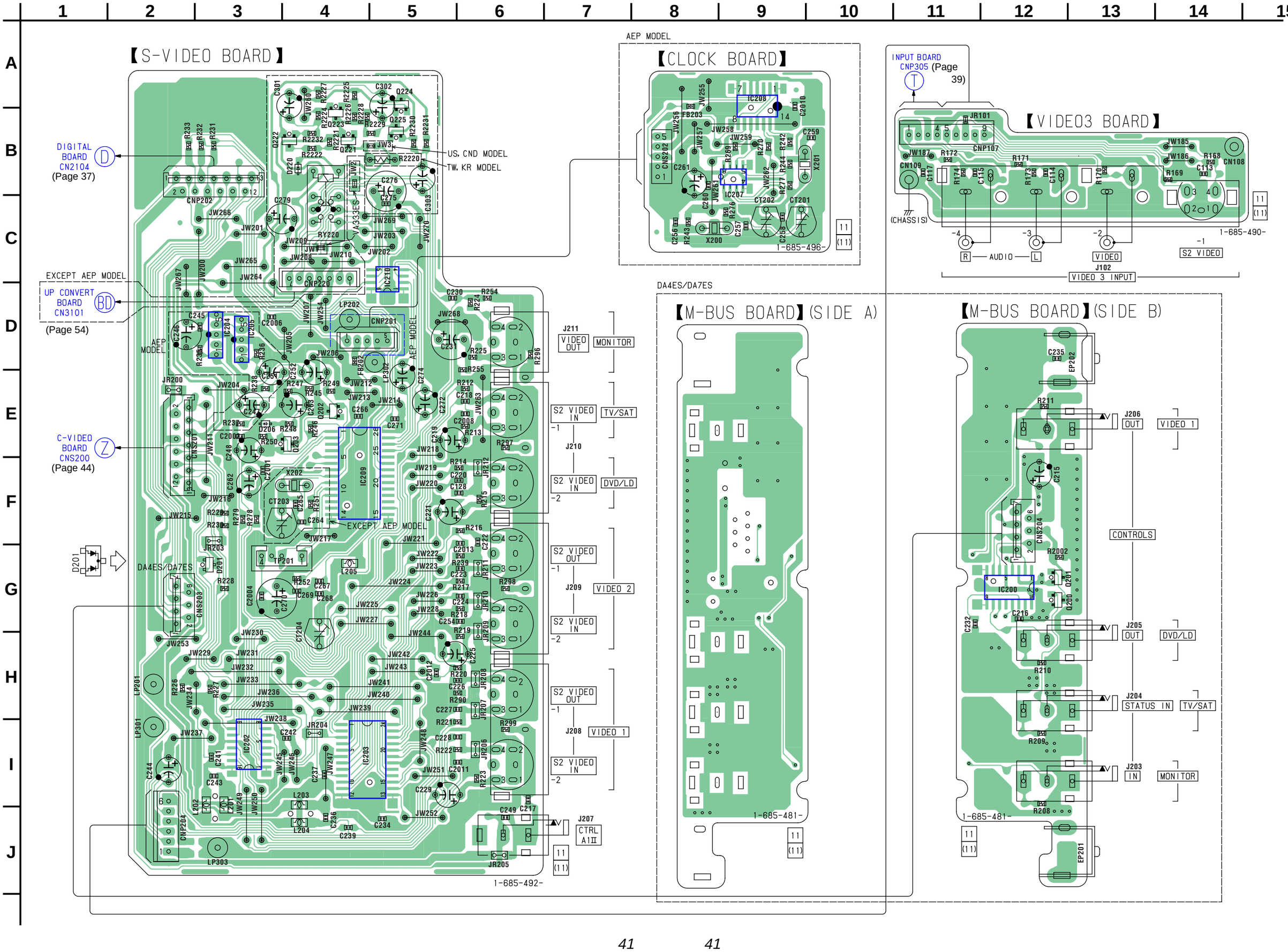
( ): SIDE A

6-17. SCHEMATIC DIAGRAM — INPUT SECTION — • Refer to page 68 for IC Block Diagrams.



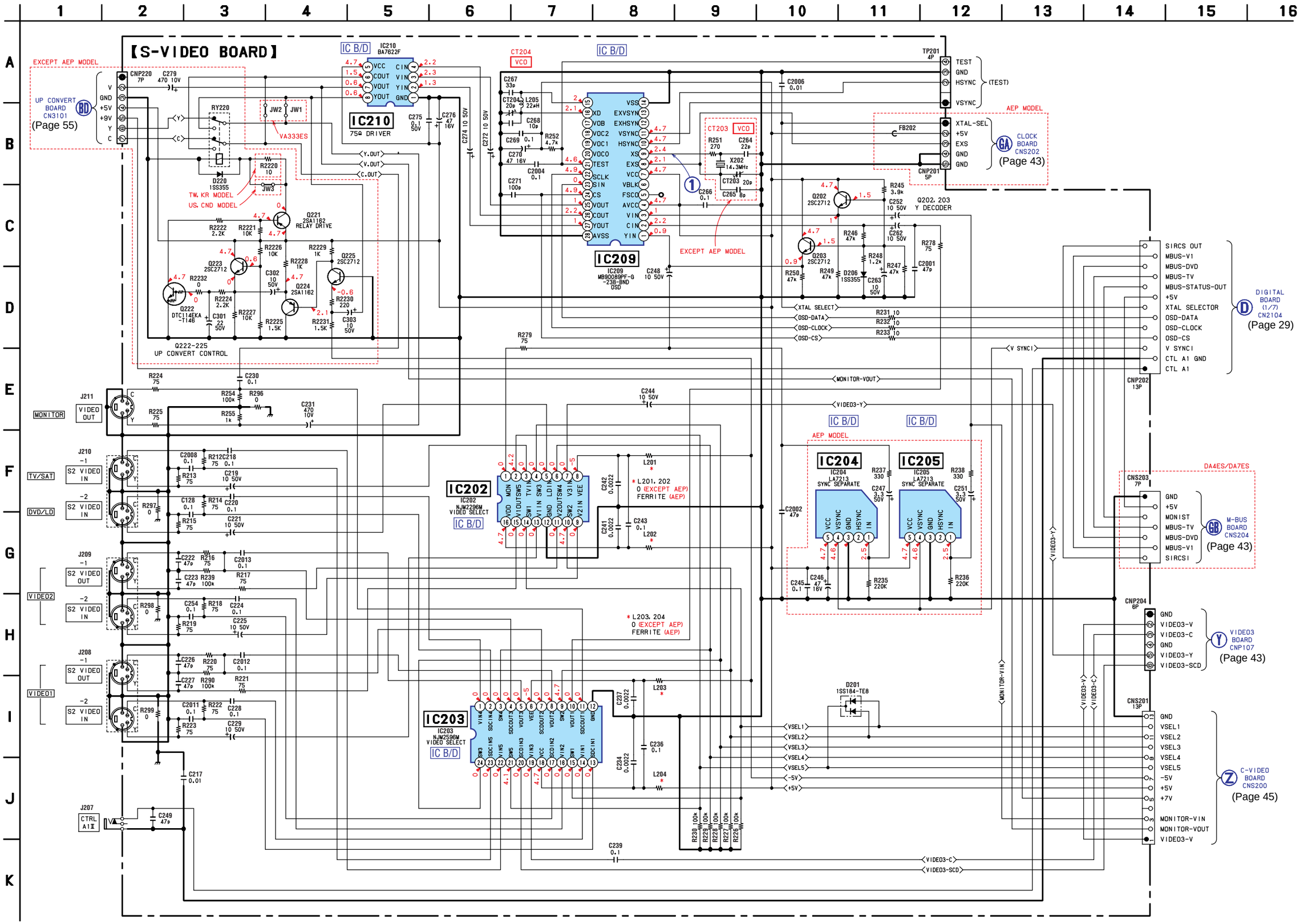
6-18. PRINTED WIRING BOARD — S-VIDEO SECTION —

• Refer to page 43 for Semiconductor Location.
• Refer to page 27 for Circuit Boards Location.



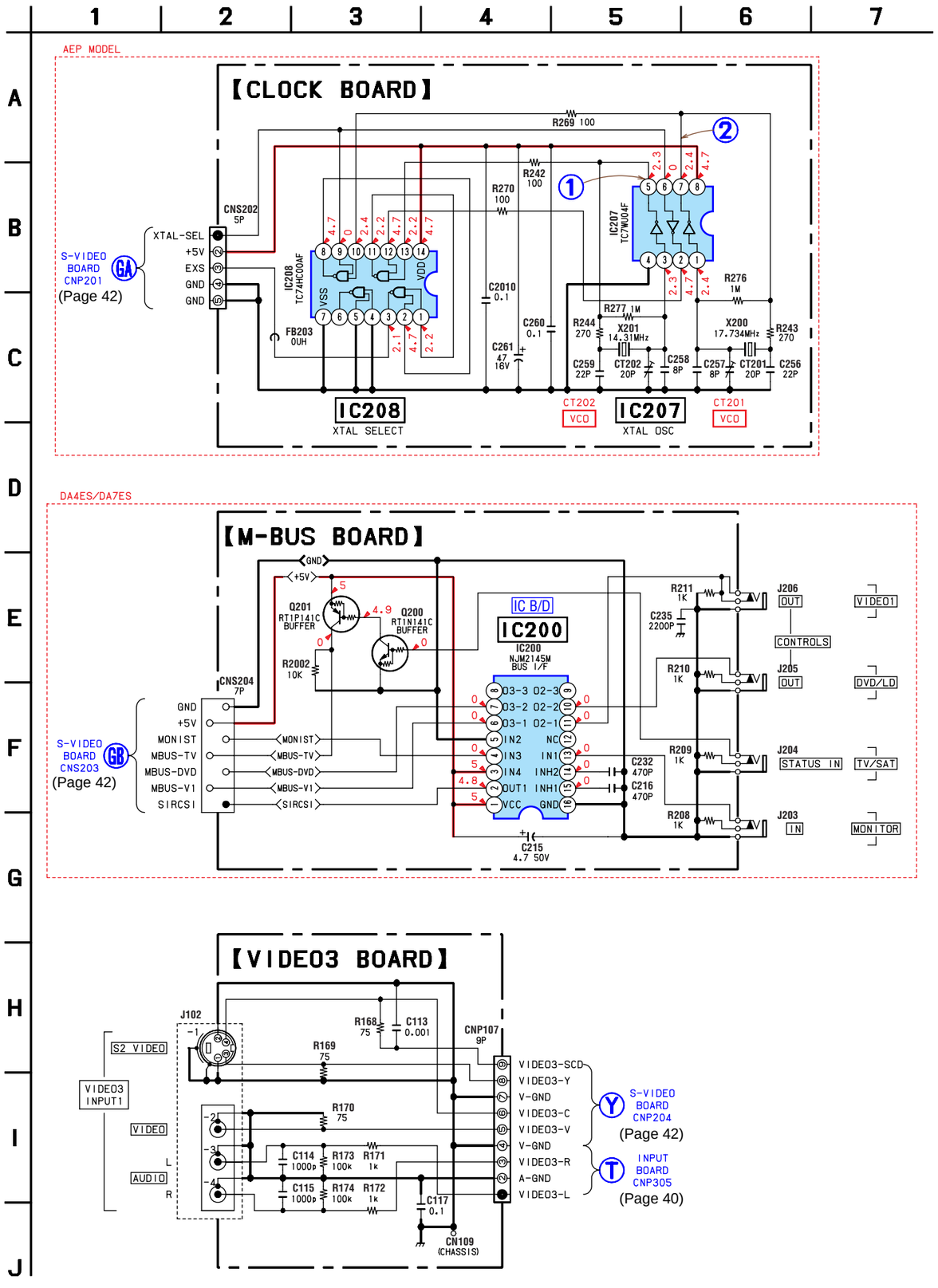
6-19. SCHEMATIC DIAGRAM — S-VIDEO SECTION (1/2) —

• Refer to page 28 for Waveform.
• Refer to page 69 for IC Block Diagrams.



6-20. SCHEMATIC DIAGRAM — S-VIDEO SECTION (2/2) —

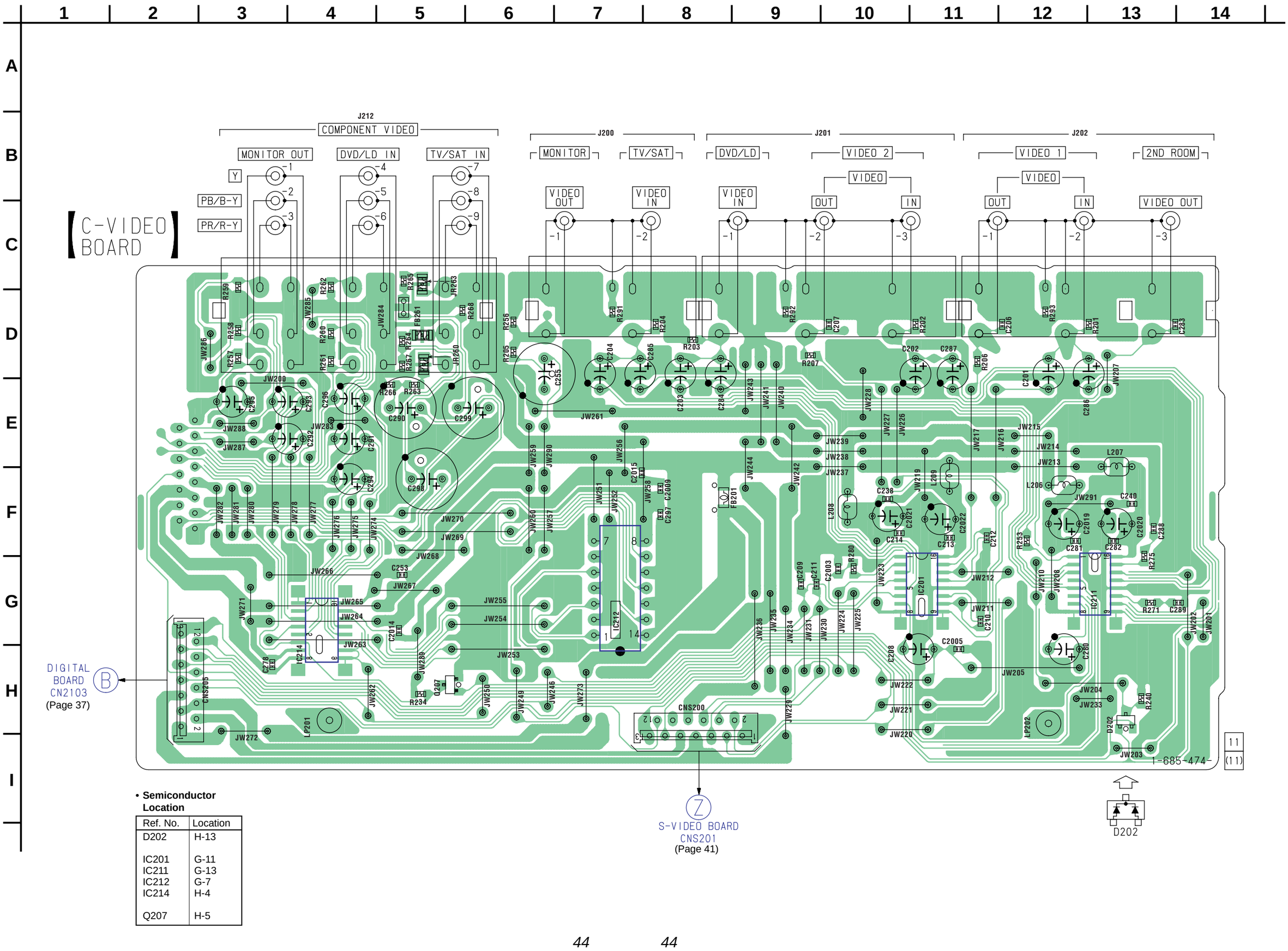
• Refer to page 28 for Waveforms.
• Refer to page 69 for IC Block Diagram.



- **Semiconductor Location**

Ref. No.	Location
D201	G-3
D206	E-3
D220	B-4
IC200	G-12
IC202	I-3
IC203	I-4
IC204	D-3
IC205	D-3
IC207	B-9
IC208	A-9
IC209	F-4
IC210	C-5
Q200	G-12
Q201	G-12
Q202	E-4
Q203	E-4
Q221	B-4
Q222	B-4
Q223	B-4
Q224	A-5
Q225	B-5

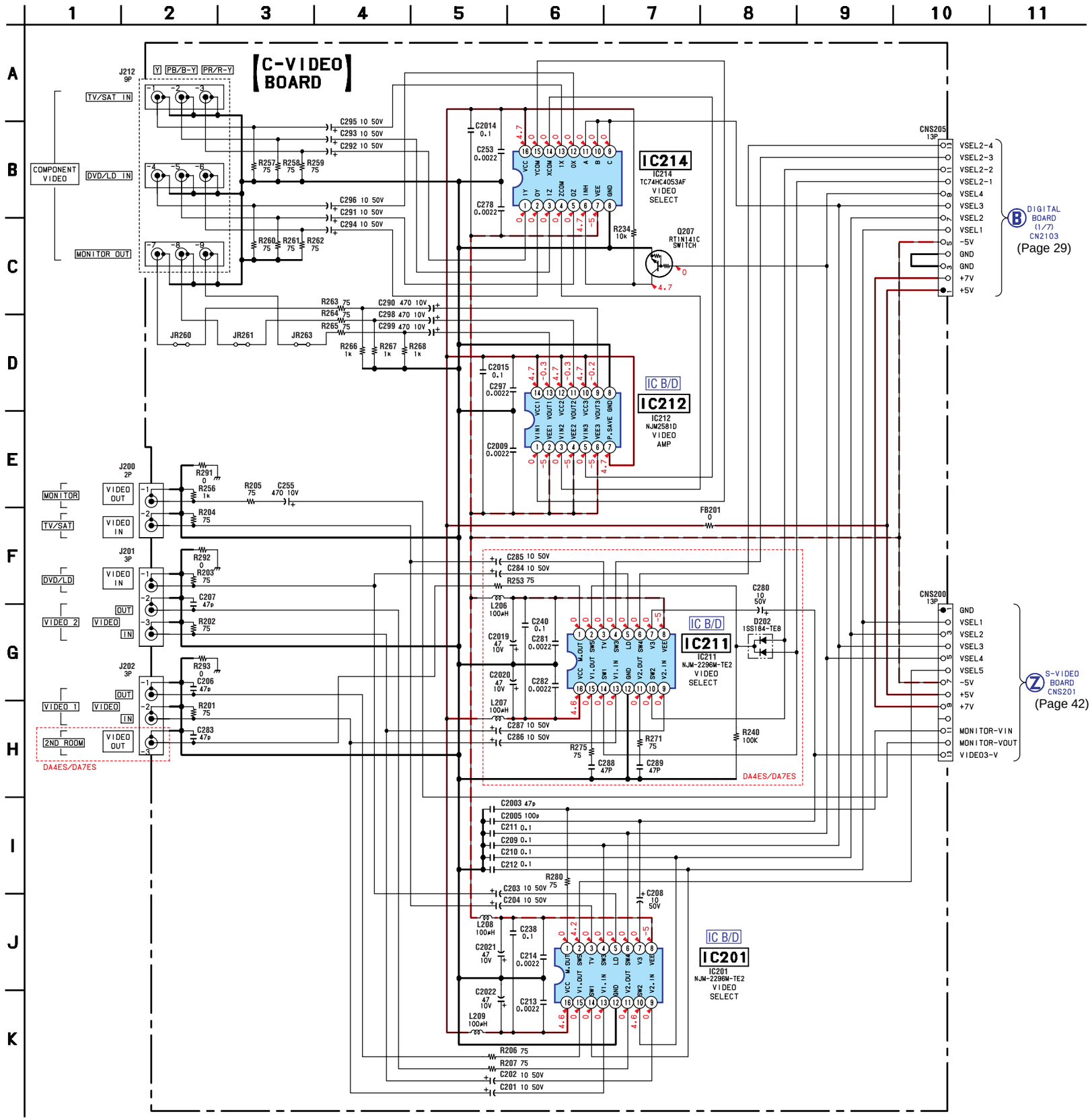
6-21. PRINTED WIRING BOARD — C-VIDEO SECTION — • Refer to page 27 for Circuit Boards Location.



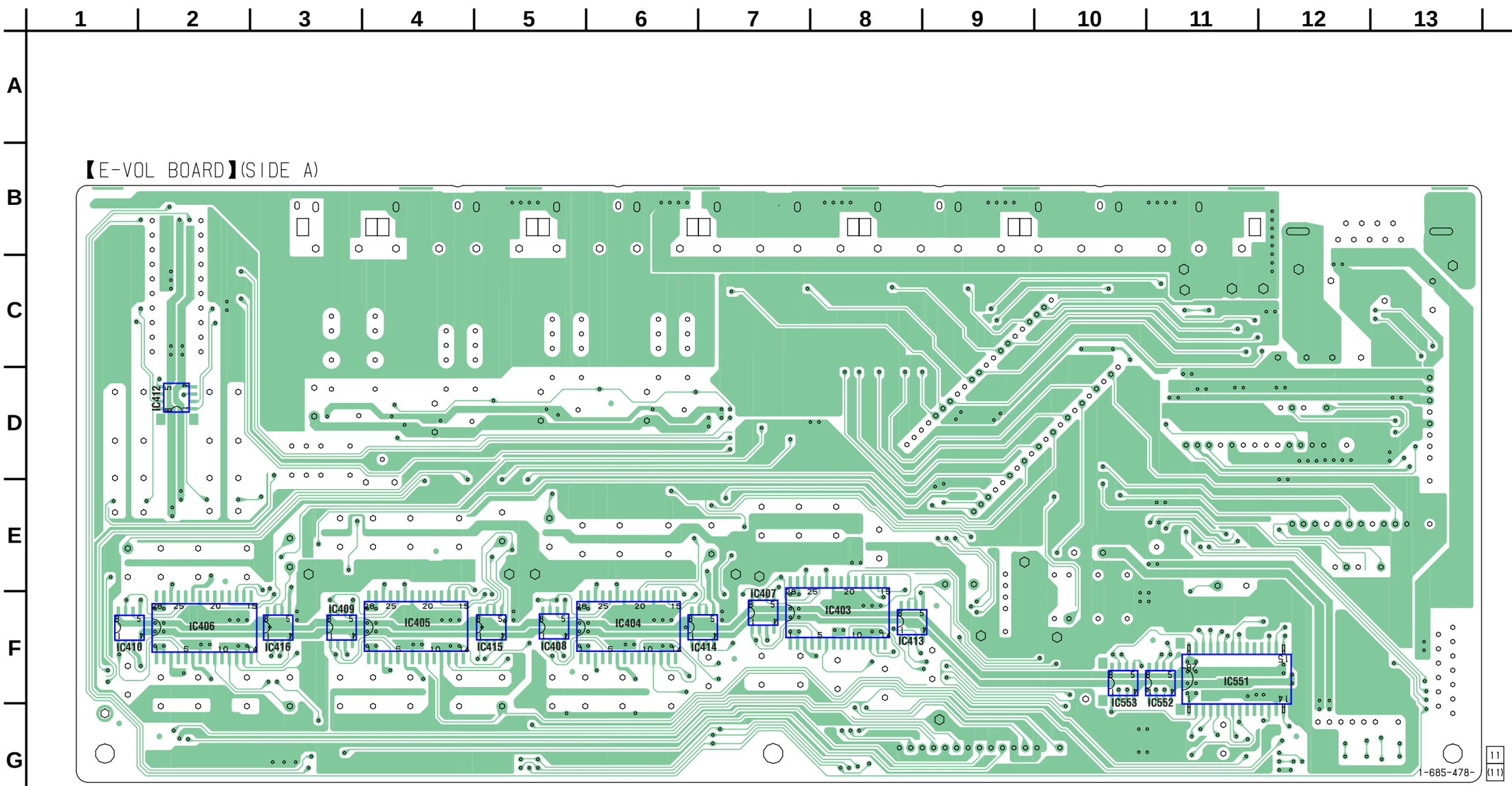
- **Semiconductor Location**

Ref. No.	Location
D202	H-13
IC201	G-11
IC211	G-13
IC212	G-7
IC214	H-4
Q207	H-5

6-22. SCHEMATIC DIAGRAM — C-VIDEO SECTION — • Refer to page 69 for IC Block Diagrams.



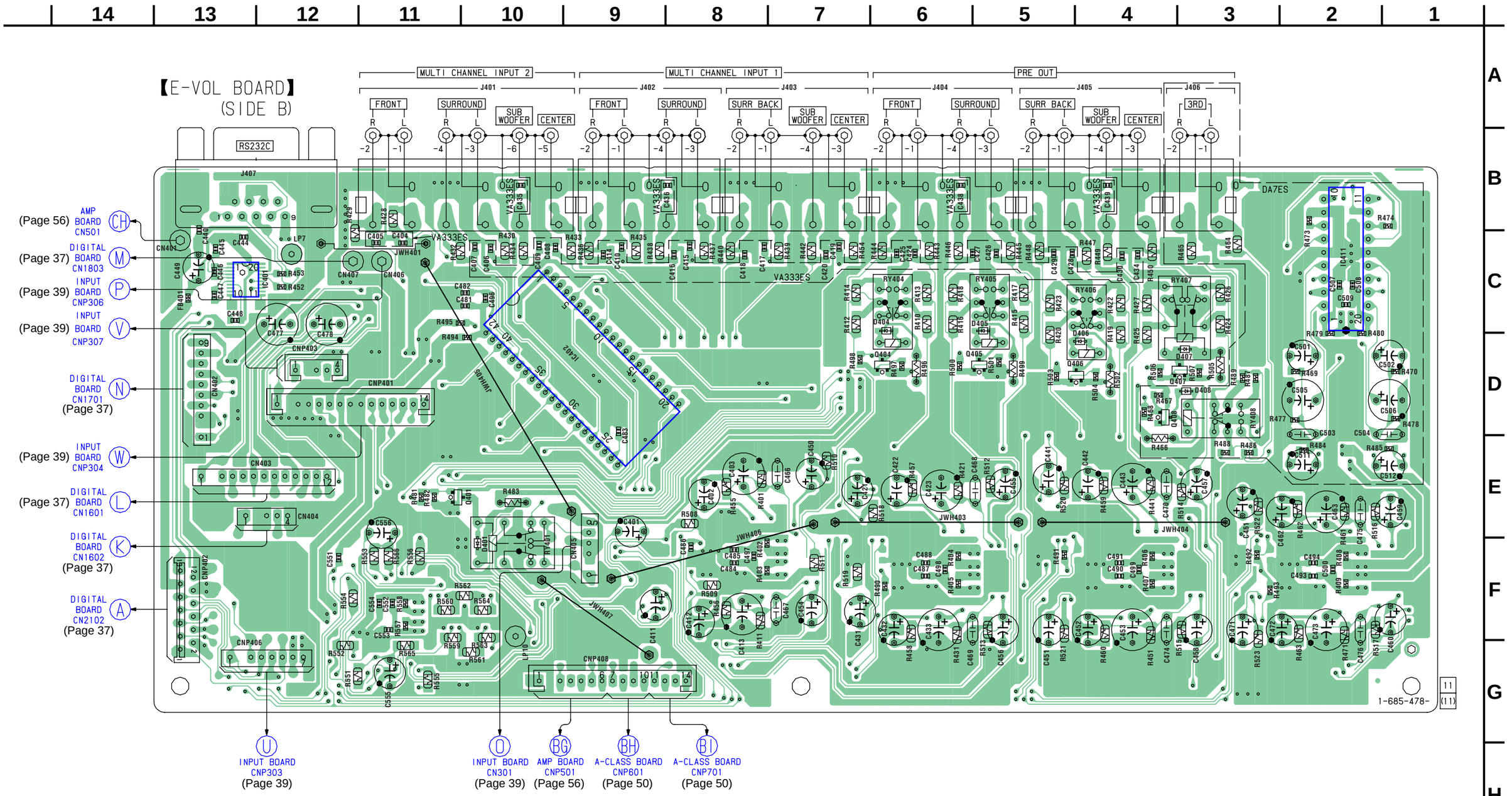
6-23. PRINTED WIRING BOARD — E-VOL SECTION — • Refer to page 27 for Circuit Boards Location.



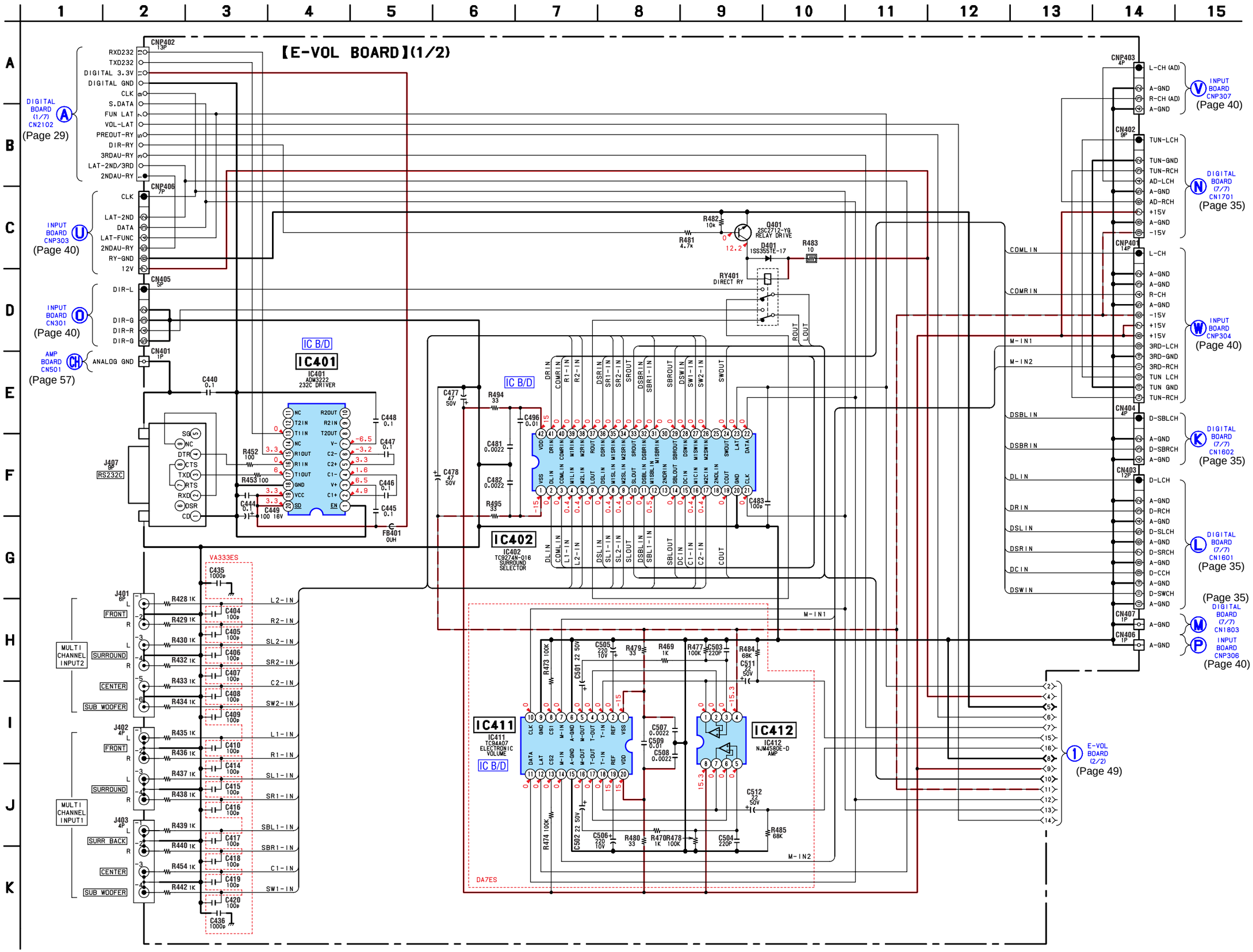
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
(D401)	F-10	IC405	F-4	IC416	F-3
(D404)	C-6	IC406	F-2	IC551	F-11
(D405)	C-5	IC407	F-7	IC552	F-11
(D406)	D-4	IC408	F-5	IC553	F-10
(D407)	D-3	IC409	F-3		
(D408)	D-3	IC410	F-1	(Q401)	E-10
		(IC411)	C-2	(Q404)	D-6
(IC401)	C-13	IC412	D-2	(Q405)	D-5
(IC402)	D-9	IC413	F-8	(Q406)	D-4
IC403	F-8	IC414	F-6	(Q407)	D-3
IC404	F-6	IC415	F-5	(Q408)	D-4

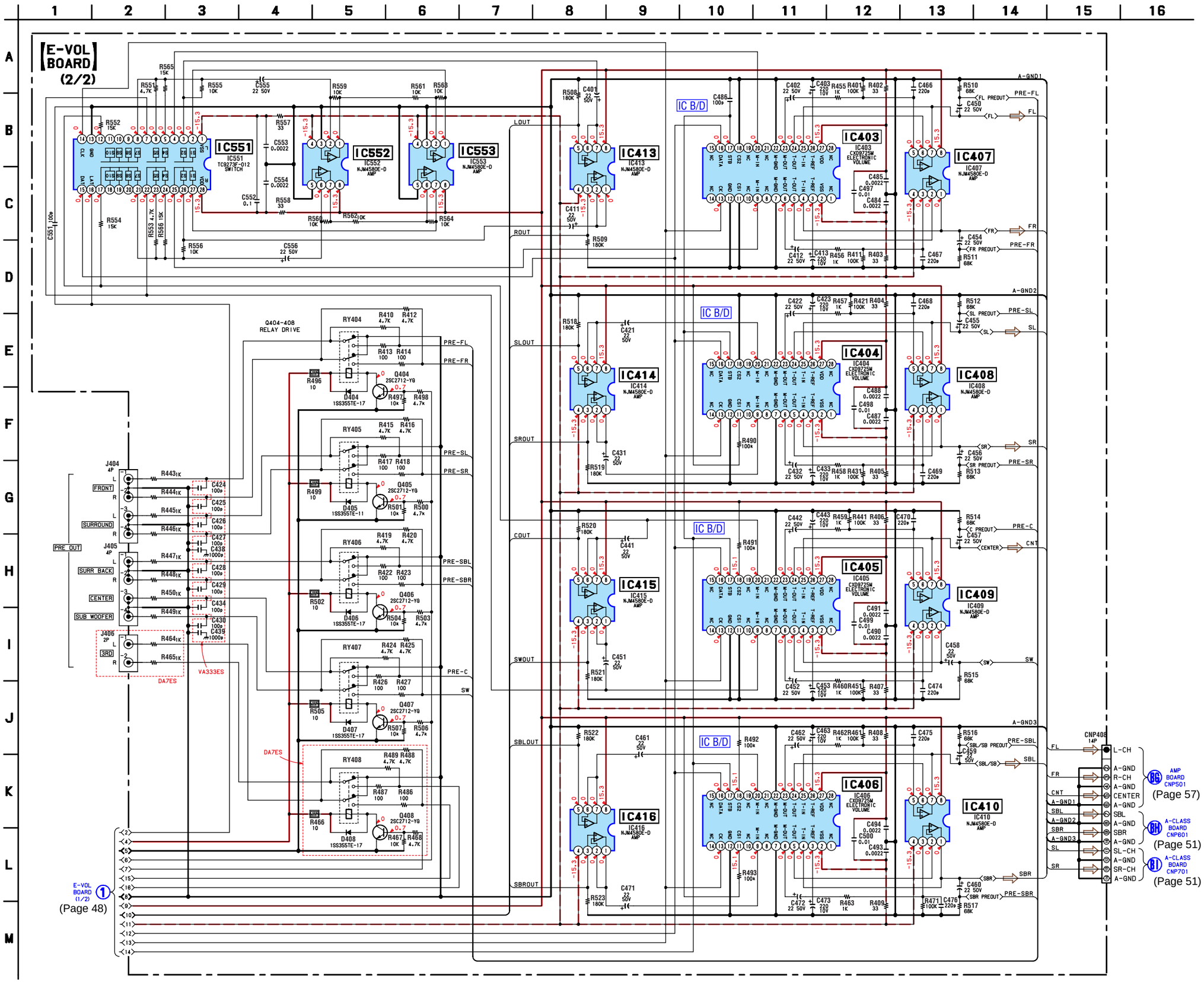
( ): SIDE B


【E-VOL BOARD】
(SIDE B)
MULTI CHANNEL INPUT 2
MULTI CHANNEL INPUT 1
PRE OUT
J401
J402
J403
J404
J405
J406
FRONT
SURROUND
SUB WOOFER
CENTER
SURR BACK
3RD
RS232C
J407
DA7ES
VA333ES
JWH401
JWH403
JWH404
JWH406
JWH407
CNP401
CNP402
CNP403
CNP404
CNP405
CNP406
CNP408
CN401
CN402
CN403
CN404
CN405
CN406
CN407
IC401
IC402
IC411
UP10
LP7
(Page 56) AMP BOARD CN501 CH
(Page 37) DIGITAL BOARD CN1803 M
(Page 39) INPUT BOARD CNP306 P
(Page 39) INPUT BOARD CNP307 V
DIGITAL BOARD CN1701 N
(Page 37)
(Page 39) INPUT BOARD CNP304 W
(Page 37) DIGITAL BOARD CN1601 L
DIGITAL BOARD CN1602 K
(Page 37)
DIGITAL BOARD CN2102 A
(Page 37)
INPUT BOARD CNP303 U
(Page 39)
INPUT BOARD CN301 O
(Page 39)
AMP BOARD CNP501 BG
(Page 56)
A-CLASS BOARD CNP601 BH
(Page 50)
A-CLASS BOARD CNP701 BI
(Page 50)
1-685-478-
11
(11)

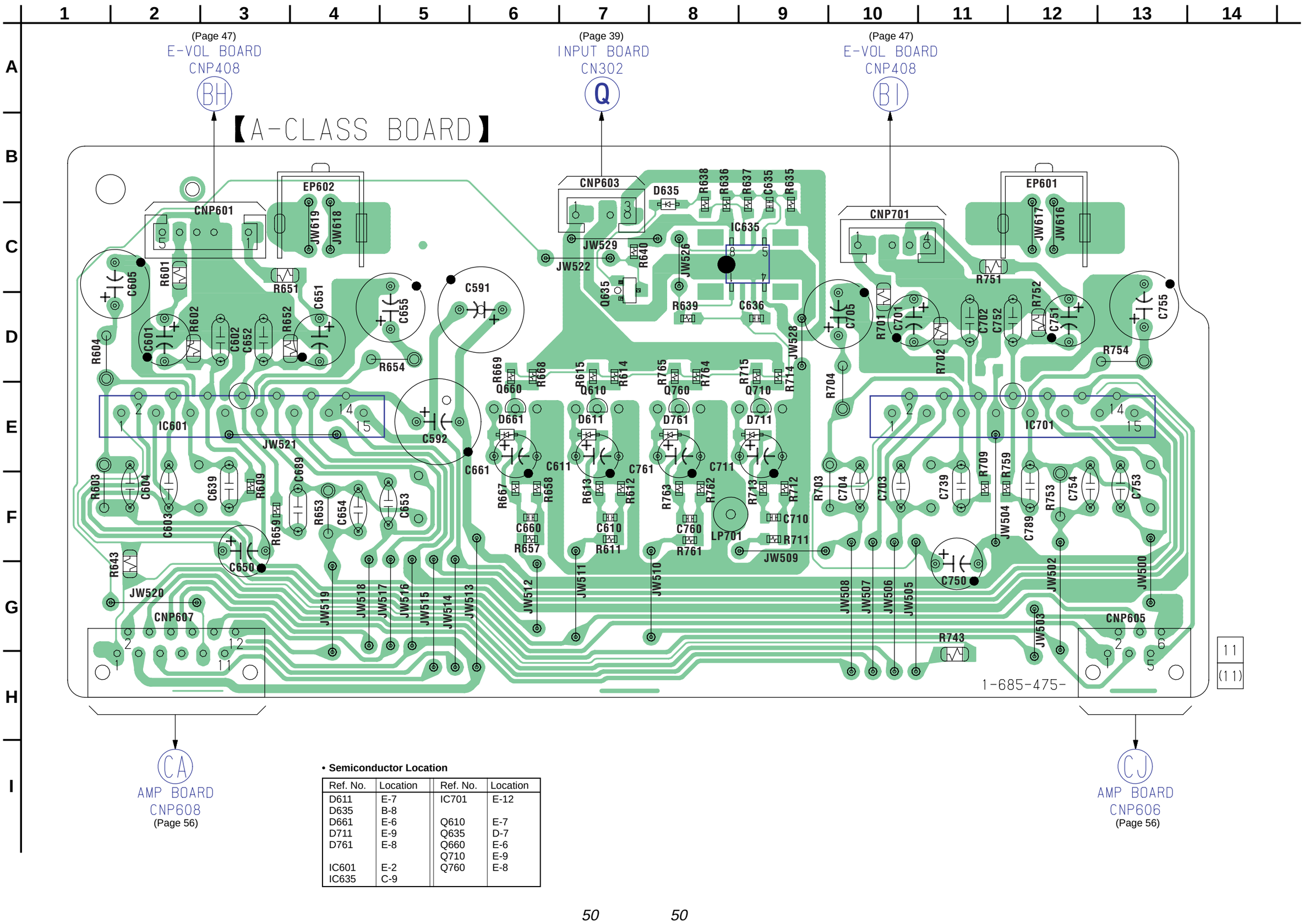
6-24. SCHEMATIC DIAGRAM — E-VOL SECTION (1/2) — • Refer to page 68 for IC Block Diagrams.



6-25. SCHEMATIC DIAGRAM — E-VOL SECTION (2/2) — • Refer to page 71 for IC Block Diagrams.



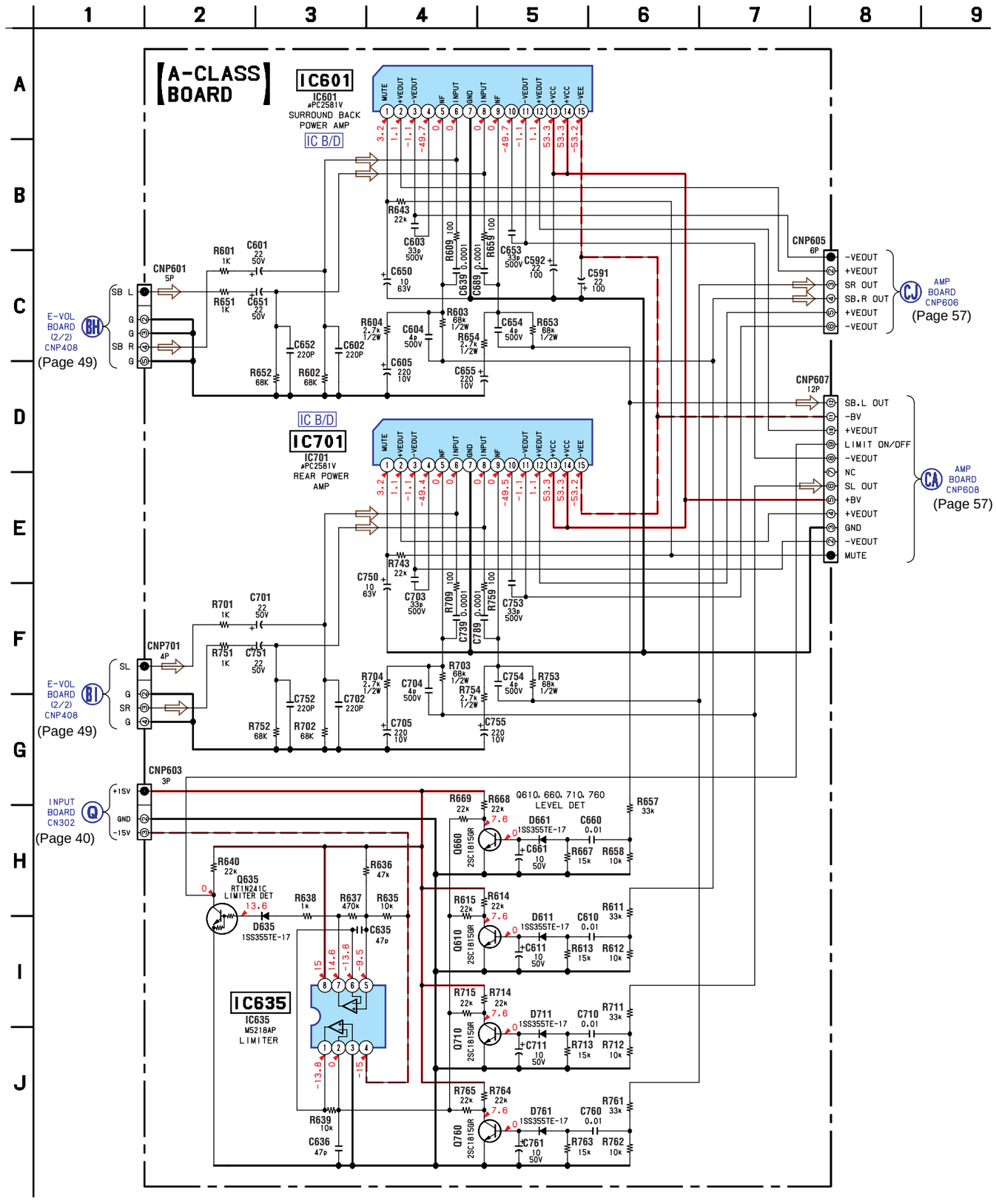
6-26. PRINTED WIRING BOARD — A-CLASS SECTION — • Refer to page 27 for Circuit Boards Location.



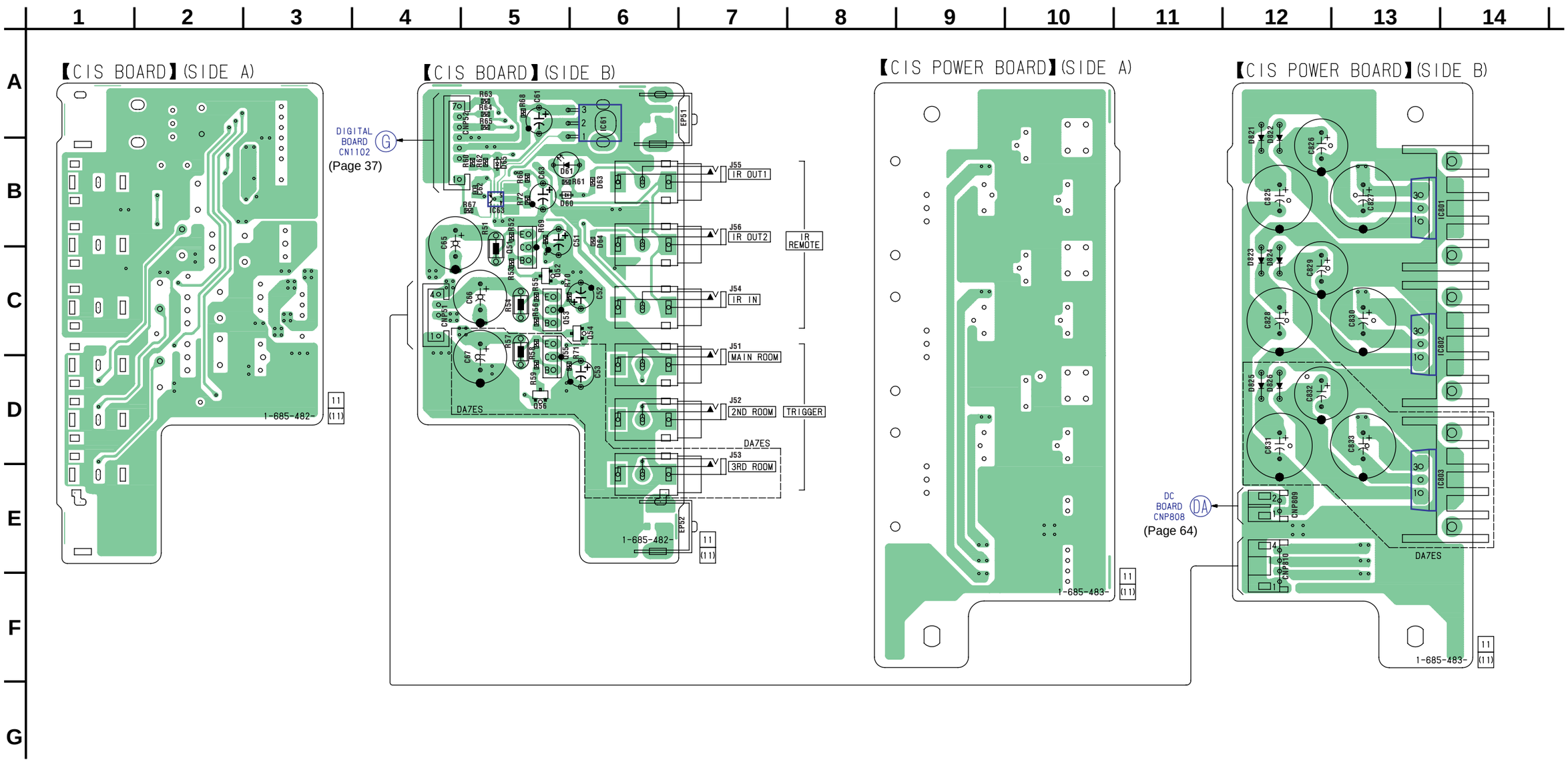
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D611	E-7	IC701	E-12
D635	B-8		
D661	E-6	Q610	E-7
D711	E-9	Q635	D-7
D761	E-8	Q660	E-6
		Q710	E-9
IC601	E-2	Q760	E-8
IC635	C-9		

6-27. SCHEMATIC DIAGRAM — A-CLASS SECTION — • Refer to page 70 for IC Block Diagrams.



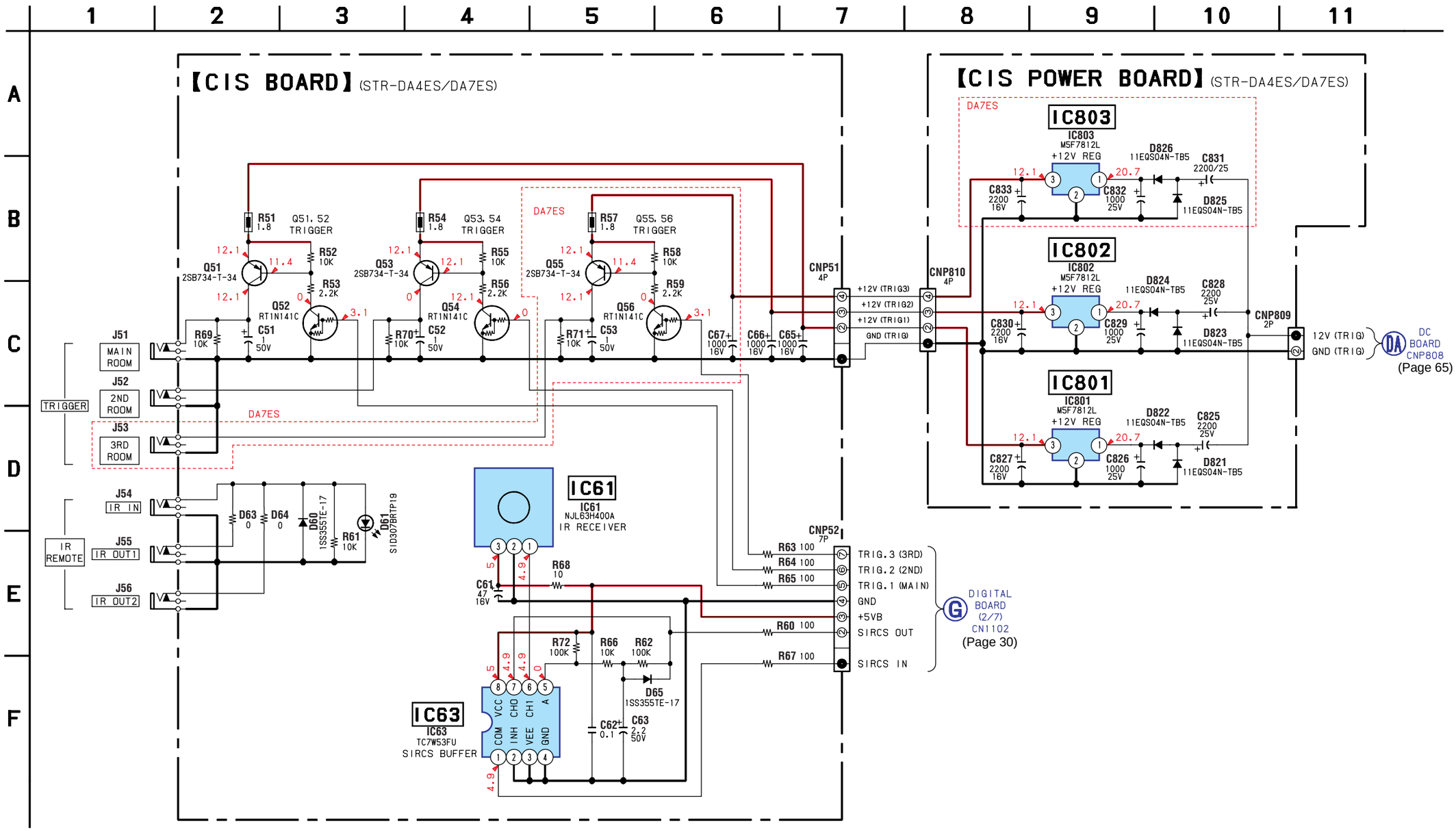
6-28. PRINTED WIRING BOARDS — CIS SECTION — • Refer to page 27 for Circuit Boards Location.



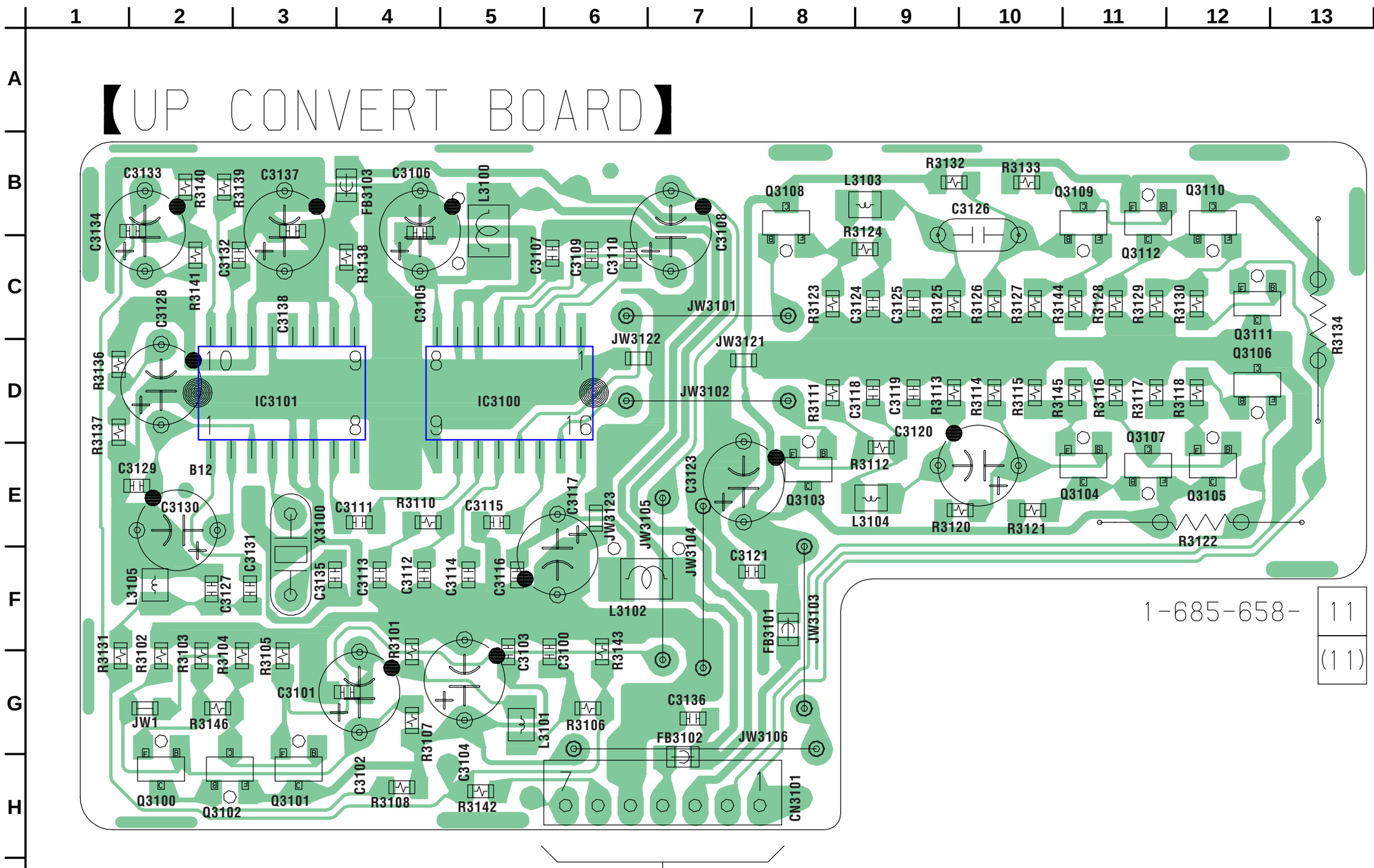
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D60	B-5	IC63	B-5
D61	B-5	IC801	B-13
D65	B-5	IC802	C-13
D821	A-12	IC803	E-13
D822	A-12		
D823	C-12	Q51	C-5
D824	C-12	Q52	C-5
D825	D-12	Q53	C-5
D826	D-12	Q54	C-6
		Q55	D-5
IC61	A-6	Q56	D-5

6-29. SCHEMATIC DIAGRAM — CIS SECTION —



6-30. PRINTED WIRING BOARD — UP CONVERT SECTION — • Refer to page 27 for Circuit Boards Location.



• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
IC3100	D-5	Q3105	E-12
IC3101	D-3	Q3106	D-12
		Q3107	E-11
Q3100	H-2	Q3108	B-8
Q3101	H-3	Q3109	B-11
Q3102	H-2	Q3110	B-12
Q3103	E-8	Q3111	C-12
Q3104	E-11	Q3112	B-11

6-31. SCHEMATIC DIAGRAM — UP CONVERT SECTION —

• Refer to page 28 for Waveform.
• Refer to page 71 for IC Block Diagrams.

【UP CONVERT BOARD】(STR-DA4ES/DA7ES)

S-VIDEO BOARD CNP220 (Page 42)

CN3101 7P: V, GND, +5V, +9V, Y, C

Q3100-3102 VIDEO AMP

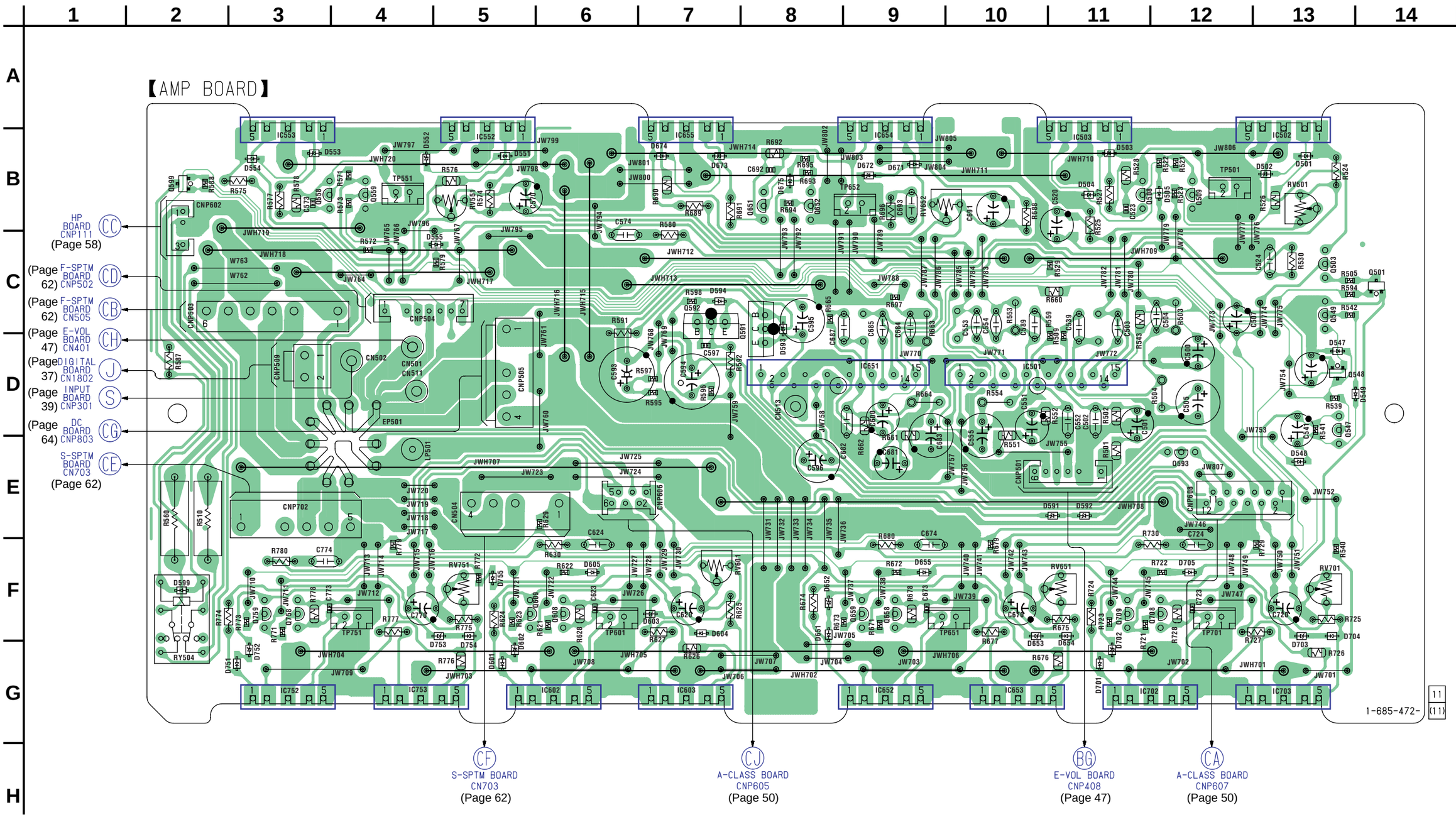
IC3100 TC90A45F Y/C SEPARATION

Q3103-3106 Y AMP

Q3108-3112 C AMP

IC3101 MM1093NF 4FSC GEN

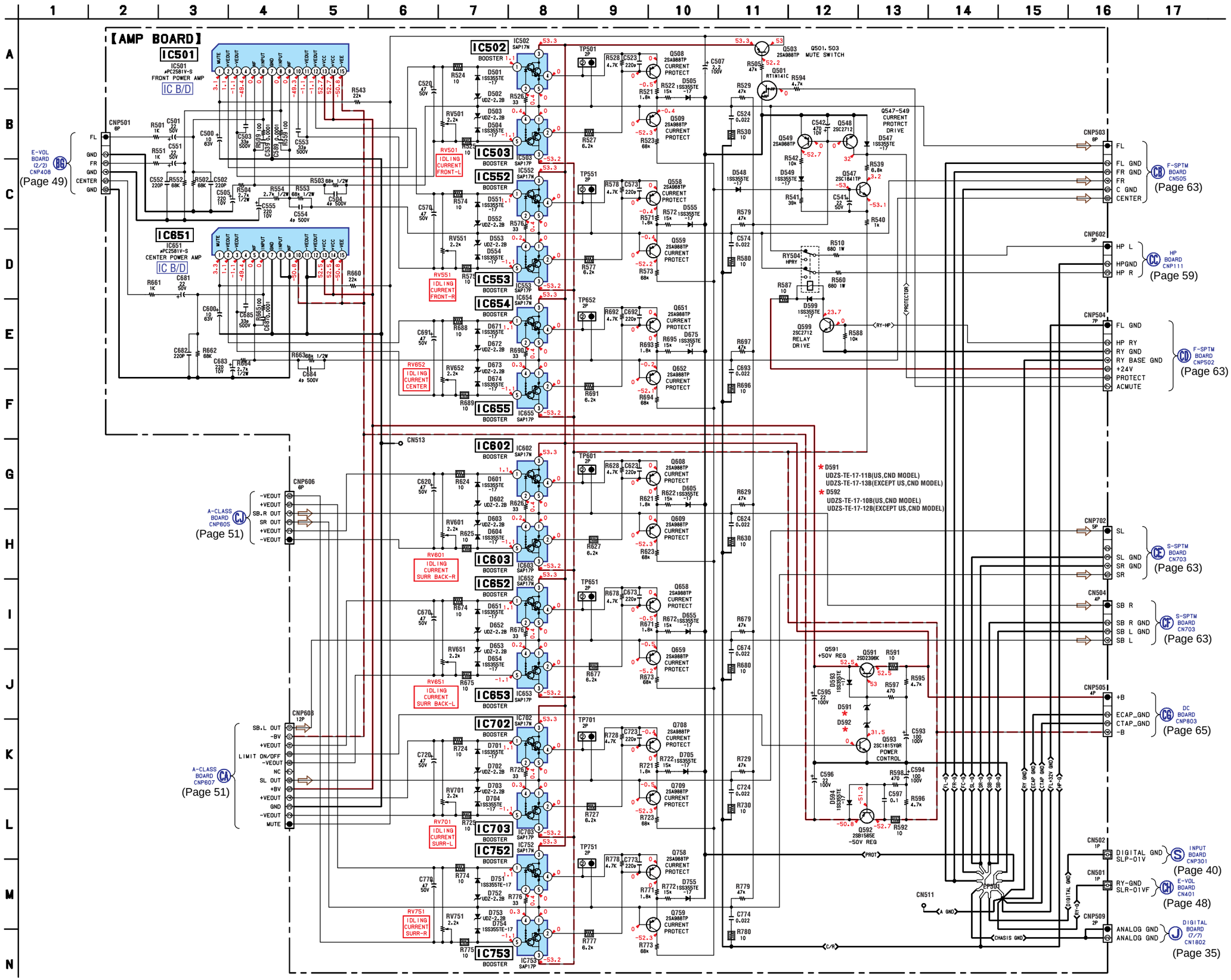
6-32. PRINTED WIRING BOARD — AMP SECTION — • Refer to page 27 for Circuit Boards Location.


【AMP BOARD】
HP BOARD CNP111 (Page 58)
(Page 62) F-SPTM BOARD CNP502
(Page 62) F-SPTM BOARD CN505
(Page 47) E-VOL BOARD CN401
(Page 37) DIGITAL BOARD CN1802
(Page 39) INPUT BOARD CNP301
(Page 64) DC BOARD CNP803
S-SPTM BOARD CN703 (Page 62)
S-SPTM BOARD CN703 (Page 62)
A-CLASS BOARD CNP605 (Page 50)
E-VOL BOARD CNP408 (Page 47)
A-CLASS BOARD CNP607 (Page 50)
1-685-472-11 (11)

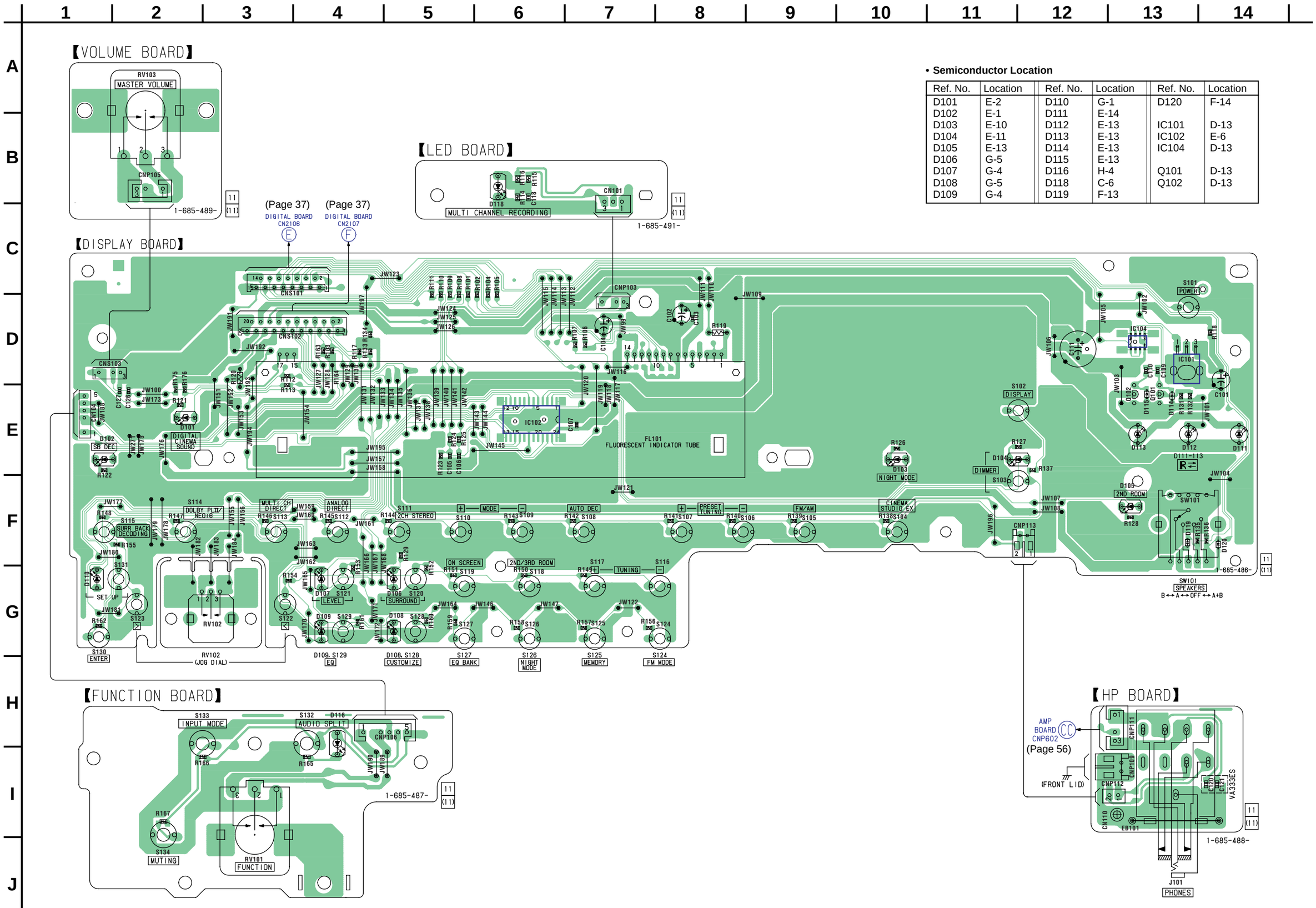
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D501	B-13	D555	C-5	D652	F-8	D704	F-13	IC553	B-3	Q501	C-14	Q599	B-2
D502	B-13	D591	E-11	D653	F-10	D705	F-12	IC602	G-6	Q503	C-13	Q608	F-6
D503	B-11	D592	E-11	D654	F-11	D751	G-3	IC603	G-7	Q508	B-11	Q609	F-5
D504	B-11	D593	D-8	D655	F-9	D752	G-3	IC651	D-9	Q509	B-12	Q651	B-8
D505	B-12	D594	C-7	D671	B-9	D753	F-5	IC652	G-9	Q547	D-13	Q652	B-8
D547	D-13	D599	F-2	D672	B-9	D754	F-5	IC653	G-10	Q548	D-13	Q658	F-9
D548	E-13	D601	G-5	D673	B-7	D755	F-5	IC654	B-9	Q549	C-13	Q659	F-9
D549	D-13	D602	G-5	D674	B-7			IC655	B-7	Q558	B-3	Q708	F-12
D551	B-5	D603	F-7	D675	B-8	IC501	D-10	IC702	G-11	Q559	B-4	Q709	F-11
D552	B-4	D604	F-7	D701	G-11	IC502	B-13	IC703	G-13	Q591	C-8	Q758	F-3
D553	B-3	D605	F-6	D702	G-11	IC503	B-11	IC752	G-3	Q592	C-7	Q759	F-3
D554	B-3	D651	F-8	D703	F-13	IC552	B-5	IC753	G-4	Q593	E-12		

6-33. SCHEMATIC DIAGRAM — AMP SECTION — • Refer to page 70 for IC Block Diagrams.



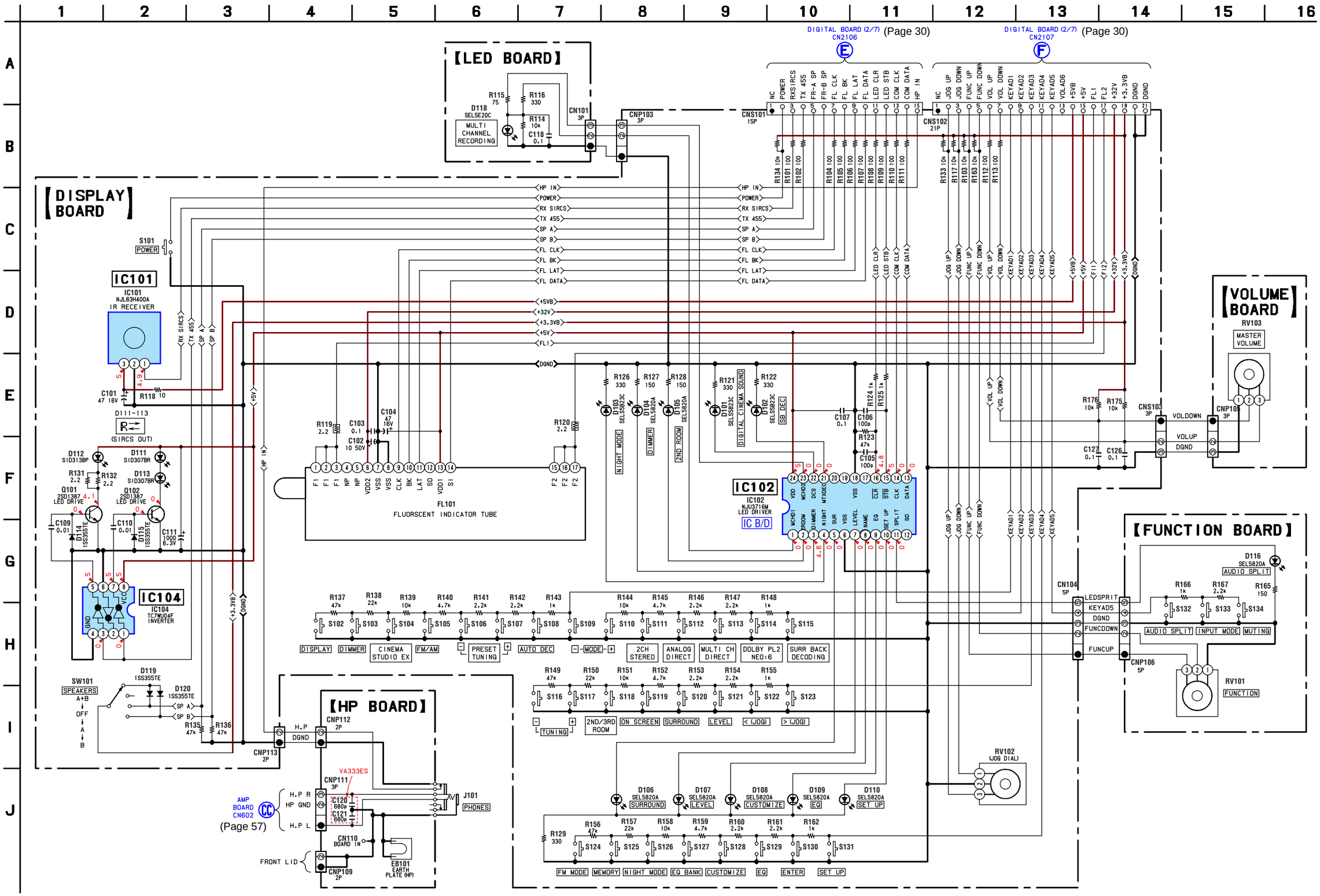
6-34. PRINTED WIRING BOARDS — DISPLAY SECTION — • Refer to page 27 for Circuit Boards Location.



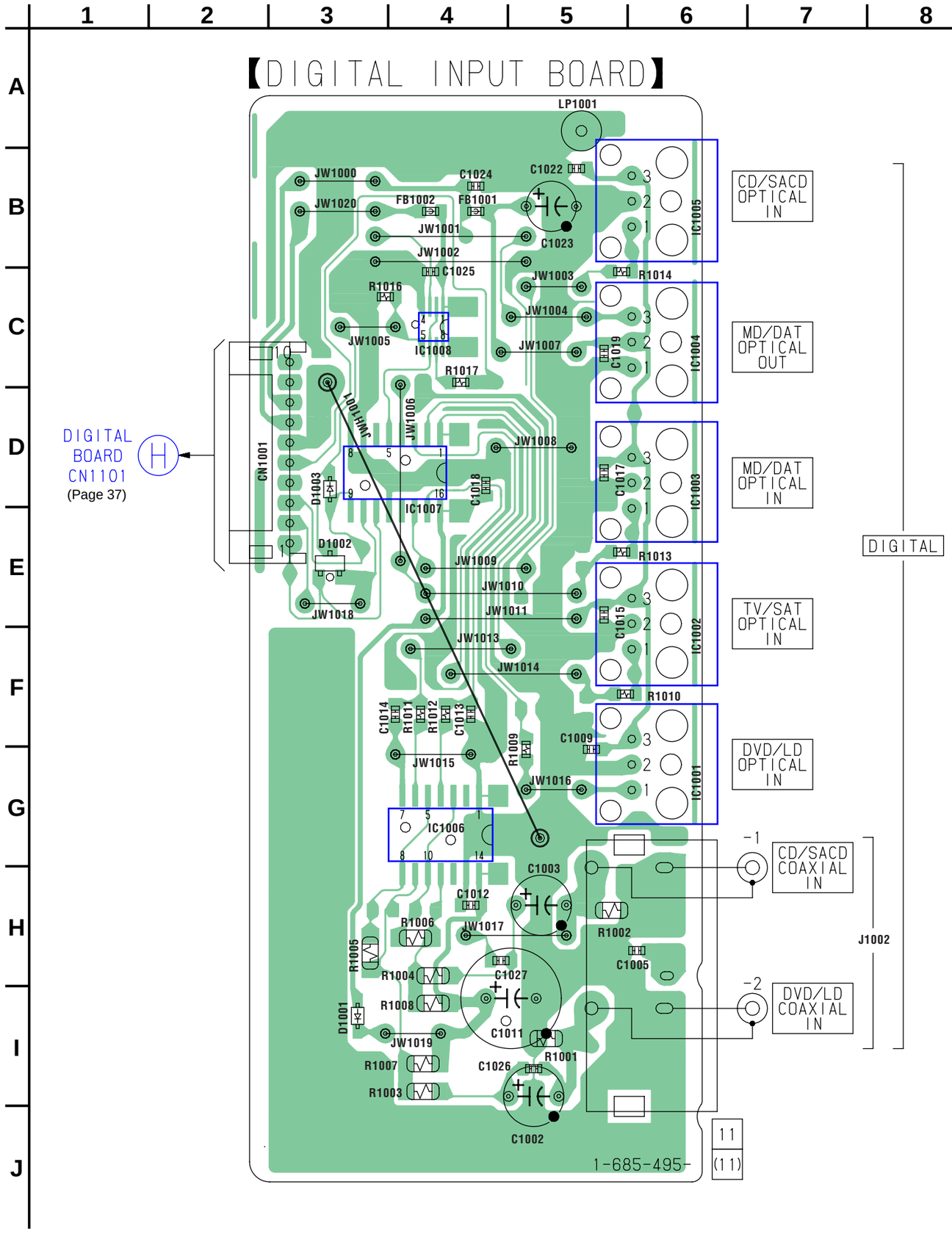
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	E-2	D110	G-1	D120	F-14
D102	E-1	D111	E-14		
D103	E-10	D112	E-13	IC101	D-13
D104	E-11	D113	E-13	IC102	E-6
D105	E-13	D114	E-13	IC104	D-13
D106	G-5	D115	E-13		
D107	G-4	D116	H-4	Q101	D-13
D108	G-5	D118	C-6	Q102	D-13
D109	G-4	D119	F-13		

6-35. SCHEMATIC DIAGRAM — DISPLAY SECTION — • Refer to page 66 for IC Block Diagram.



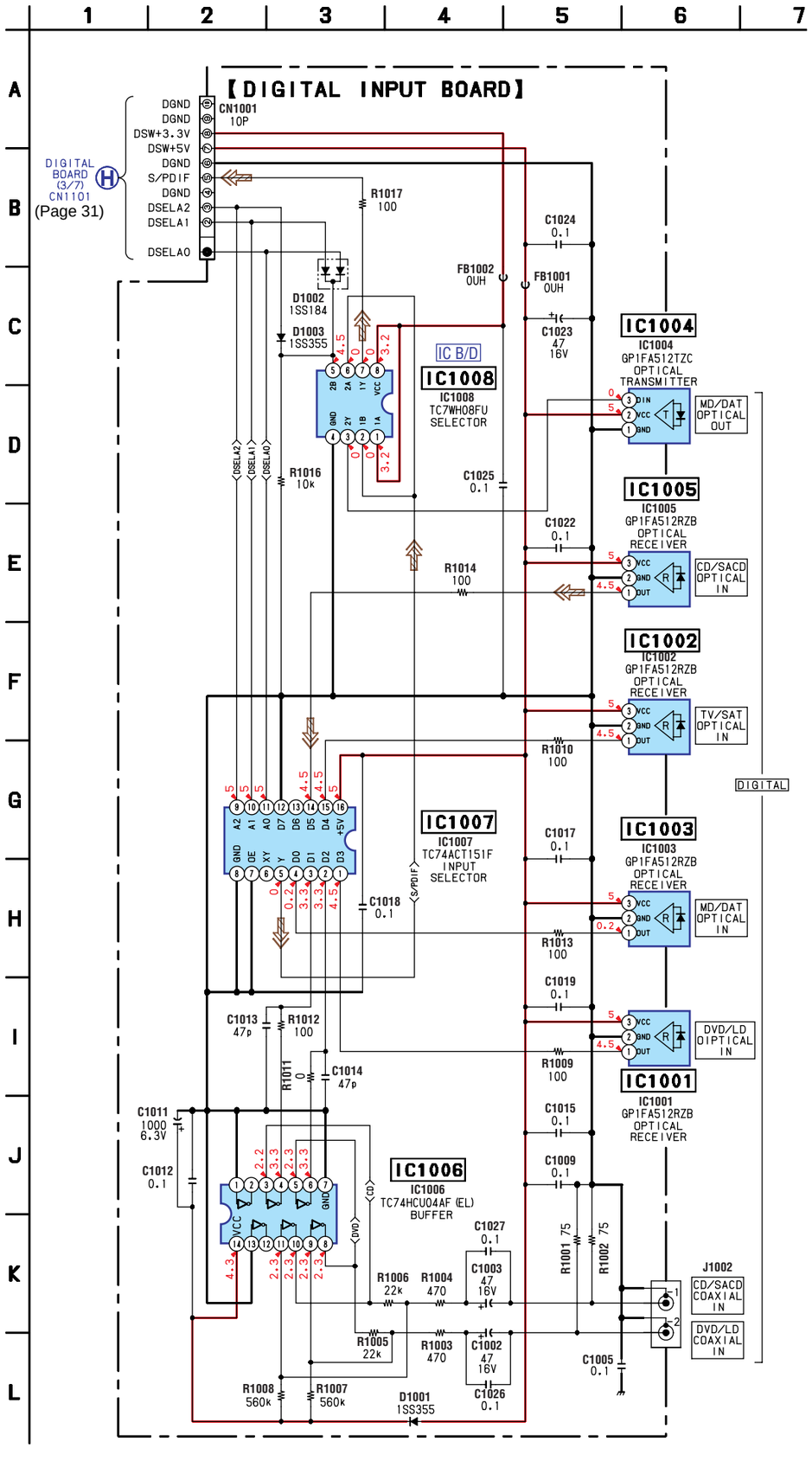
6-36. PRINTED WIRING BOARD — DIGITAL INPUT SECTION — • Refer to page 27 for Circuit Boards Location.



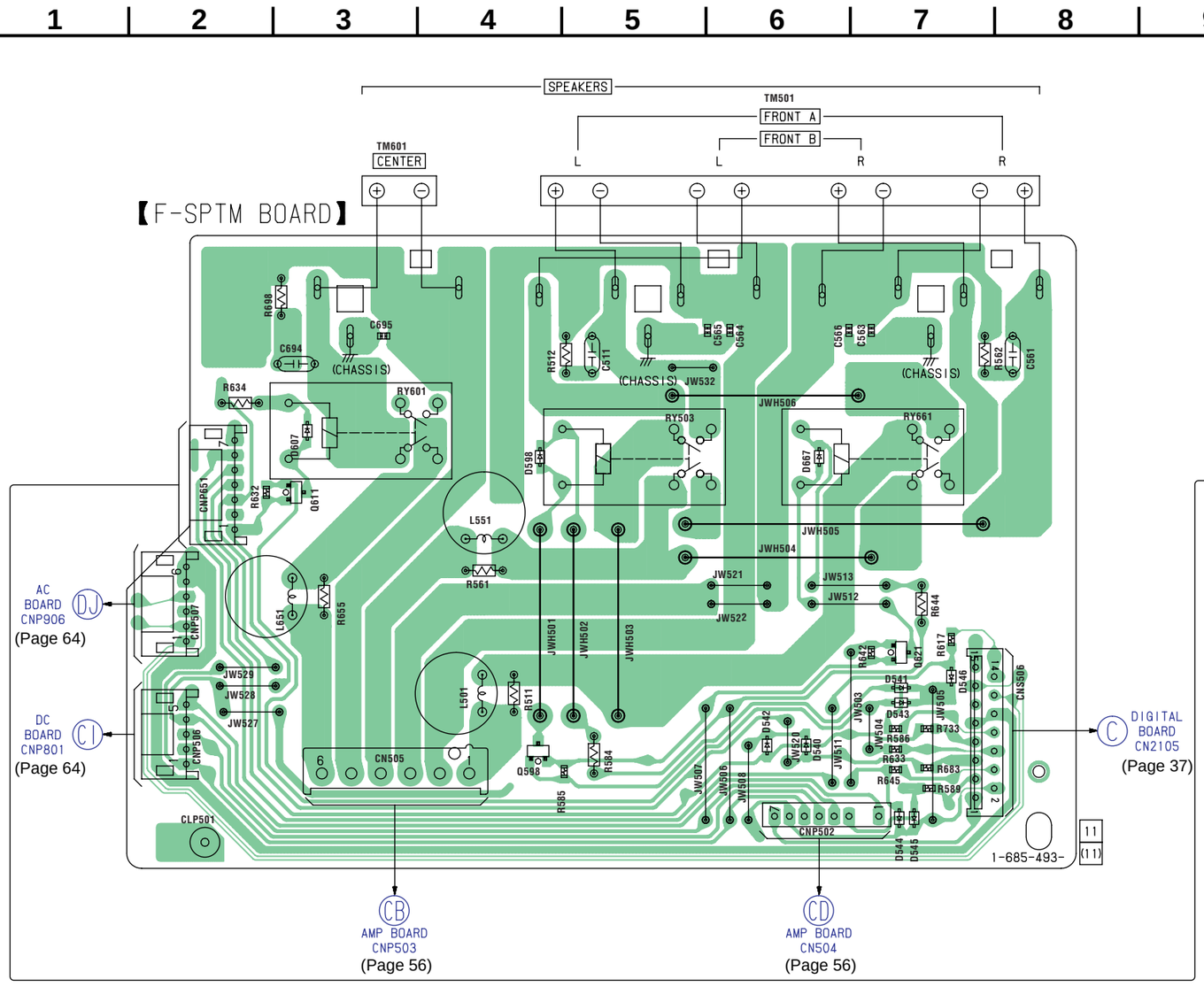
- **Semiconductor Location**

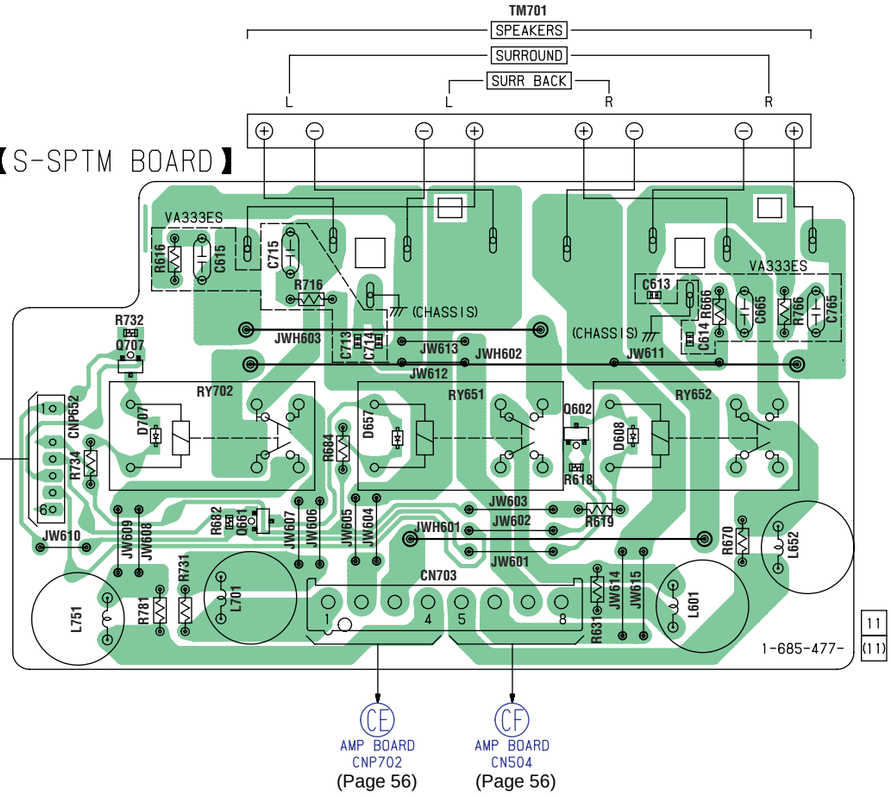
Ref. No.	Location
D1001	I-3
D1002	E-3
D1003	D-3
IC1001	G-6
IC1002	F-6
IC1003	D-6
IC1004	C-6
IC1005	B-6
IC1006	G-4
IC1007	D-4
IC1008	C-4

6-37. SCHEMATIC DIAGRAM — DIGITAL INPUT SECTION — • Refer to page 71 for IC Block Diagram.



6-38. PRINTED WIRING BOARDS — SPEAKER SECTION — • Refer to page 27 for Circuit Boards Location.

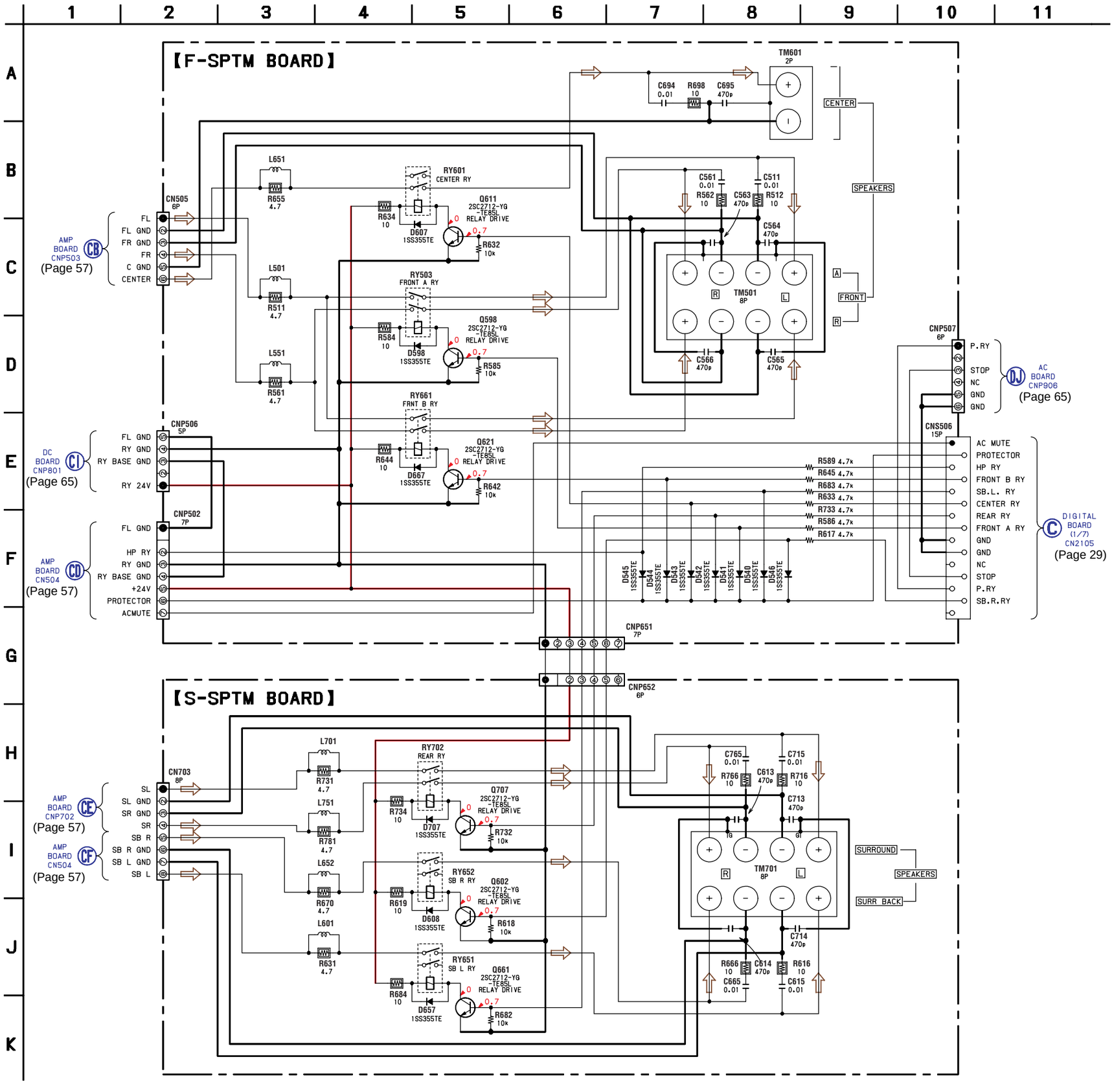




• **Semiconductor Location**

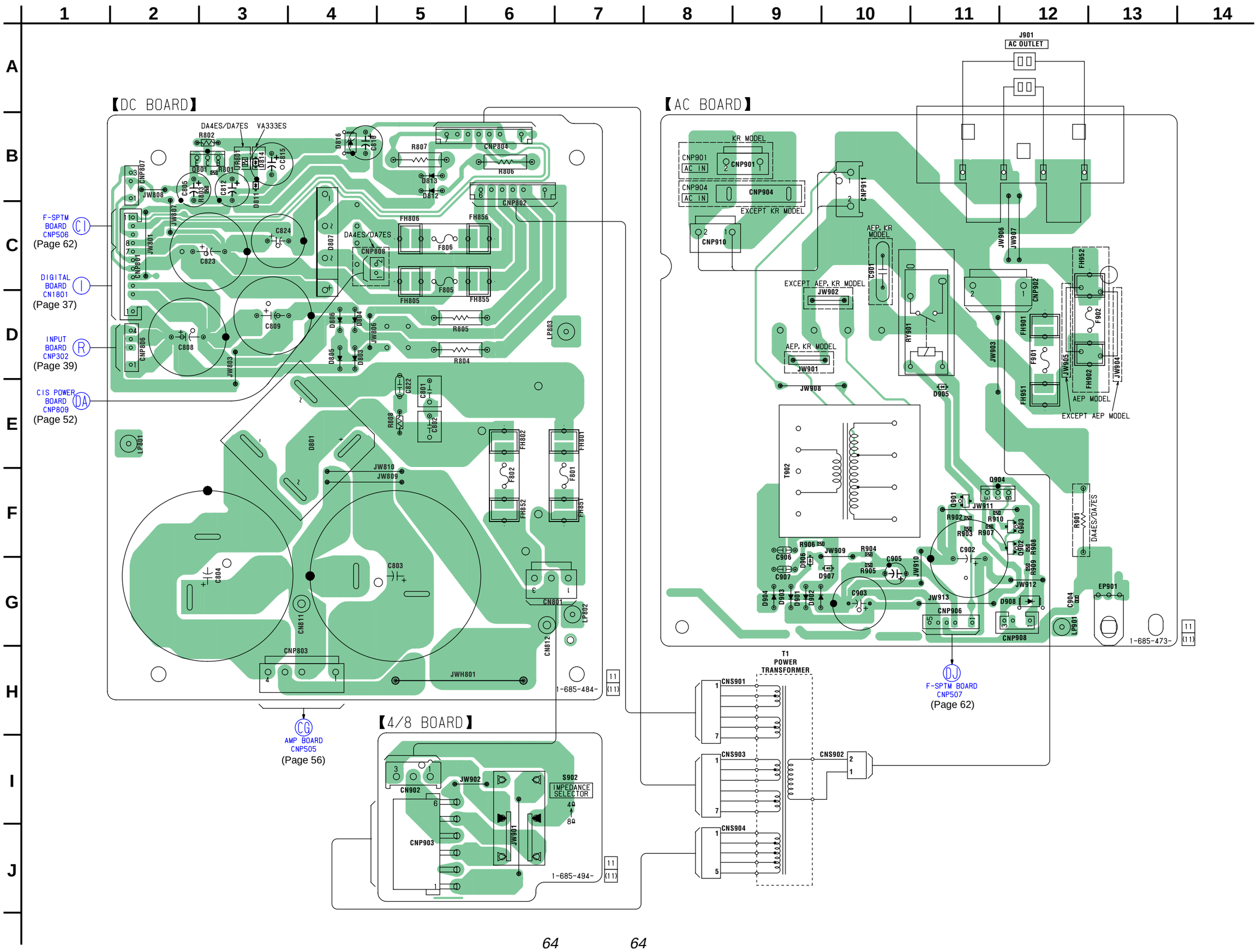
Ref. No.	Location	Ref. No.	Location
D540	E-6	D657	D-12
D541	E-7	D667	C-6
D542	E-6	D707	C-10
D543	E-7		
D544	F-7	Q598	E-4
D545	F-7	Q602	D-13
D546	E-7	Q611	D-3
D598	C-4	Q621	E-7
D607	C-3	Q661	D-11
D608	D-13	Q707	C-10

6-39. SCHEMATIC DIAGRAM — SPEAKER SECTION —

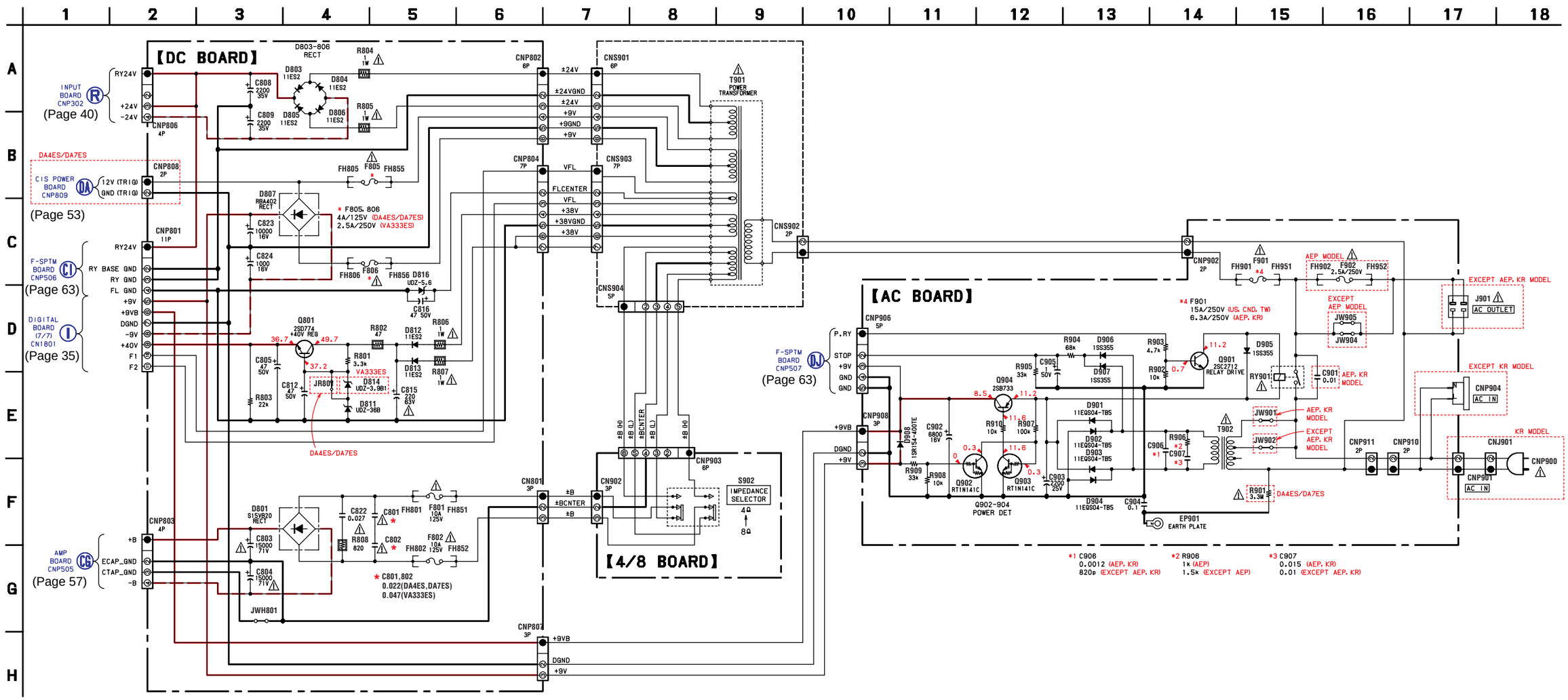


6-40. PRINTED WIRING BOARDS — POWER SECTION —

• Refer to page 65 for Semiconductor Location.
• Refer to page 27 for Circuit Boards Location.



6-41. SCHEMATIC DIAGRAM — POWER SECTION —

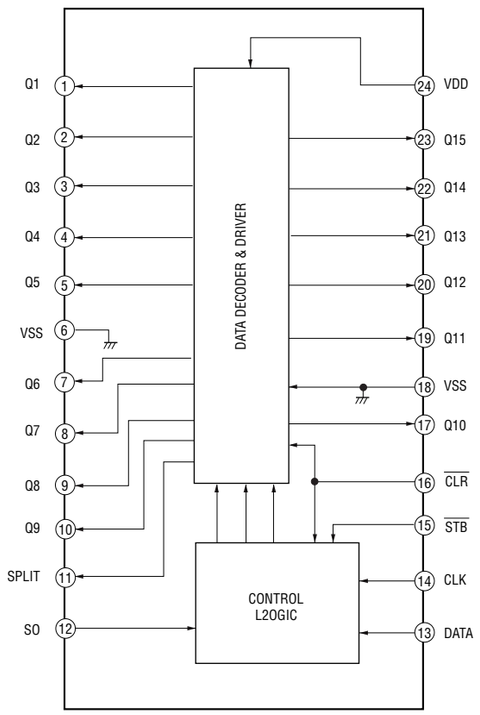

【DC BOARD】
【AC BOARD】
【4/8 BOARD】
INPUT BOARD CNP302 (Page 40)
CIS POWER BOARD CNP809 (Page 53)
F-SPTM BOARD CNP506 (Page 63)
DIGITAL BOARD (7/7) CN1801 (Page 35)
AMP BOARD CNP505 (Page 57)
F-SPTM BOARD CNP507 (Page 63)
T901 POWER TRANSFORMER
S902 IMPEDANCE SELECTOR
4Ω
8Ω
EXCEPT AEP, KR MODEL
AEP MODEL
EXCEPT AEP MODEL
KR MODEL
AEP, KR MODEL
EXCEPT AEP, KR MODEL
DA4ES/DA7ES
VA333ES
*1 C906 0.0012 (AEP, KR) 820p (EXCEPT AEP, KR)
*2 R908 1k (AEP) 1.5k (EXCEPT AEP)
*3 C907 0.015 (AEP, KR) 0.01 (EXCEPT AEP, KR)
*4 F901 15A/250V (US, CND, TW) 6.3A/250V (AEP, KR)
* F805, 806 4A/125V (DA4ES/DA7ES) 2.5A/250V (VA333ES)
* C801, 802 0.022(DA4ES, DA7ES) 0.047(VA333ES)
EP901 EARTH PLATE
Q902-904 POWER DET

• **Semiconductor Location**

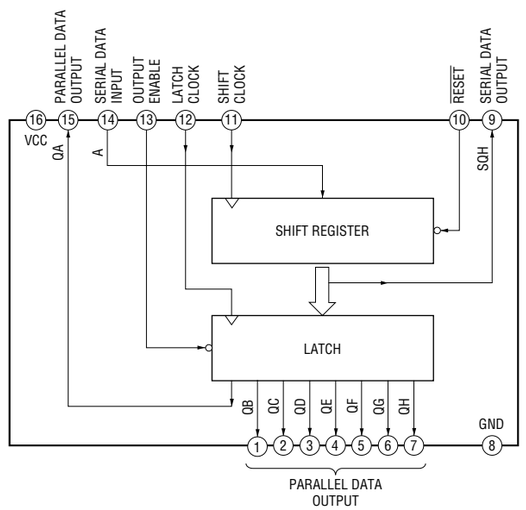
Ref. No.	Location	Ref. No.	Location
D801	E-4	D903	G-9
D803	D-4	D904	G-9
D804	D-4	D905	E-11
D805	D-4	D906	F-9
D806	D-4	D907	G-10
D807	C-4	D908	G-12
D811	B-3		
D812	B-5	Q801	B-3
D813	B-5	Q901	F-11
D814	B-3	Q902	F-12
D816	B-4	Q903	F-12
D901	G-9	Q904	F-11
D902	G-9		

6-42. IC BLOCK DIAGRAMS

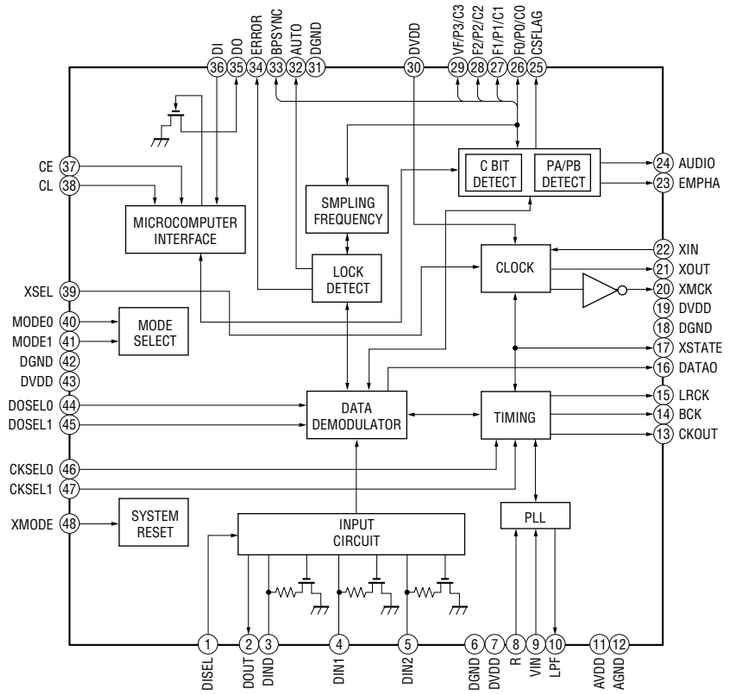
IC2103 NJU3716M (DIGITAL BOARD)
IC102 NJU3716M (DISPLAY BOARD)



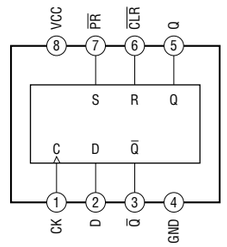
IC2109 TC74HC595AF (DIGITAL BOARD)



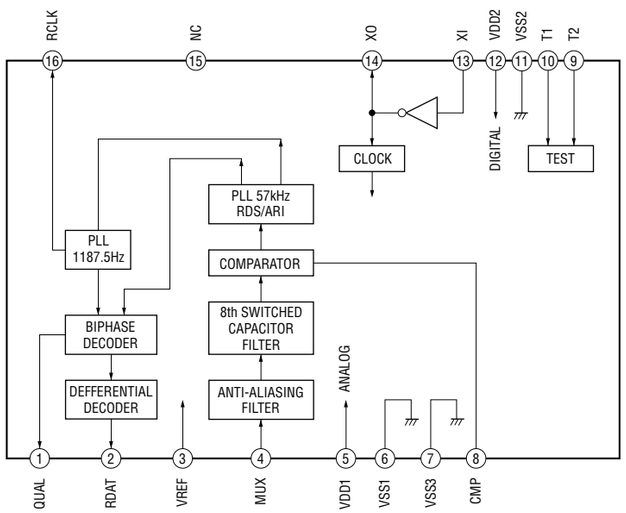
IC1101 LC89056W-E (DIGITAL BOARD)



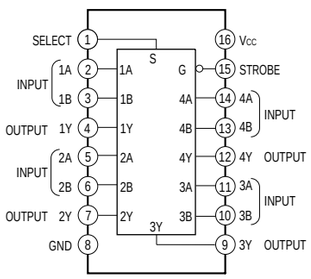
IC1102 TC7WH74FU (DIGITAL BOARD)



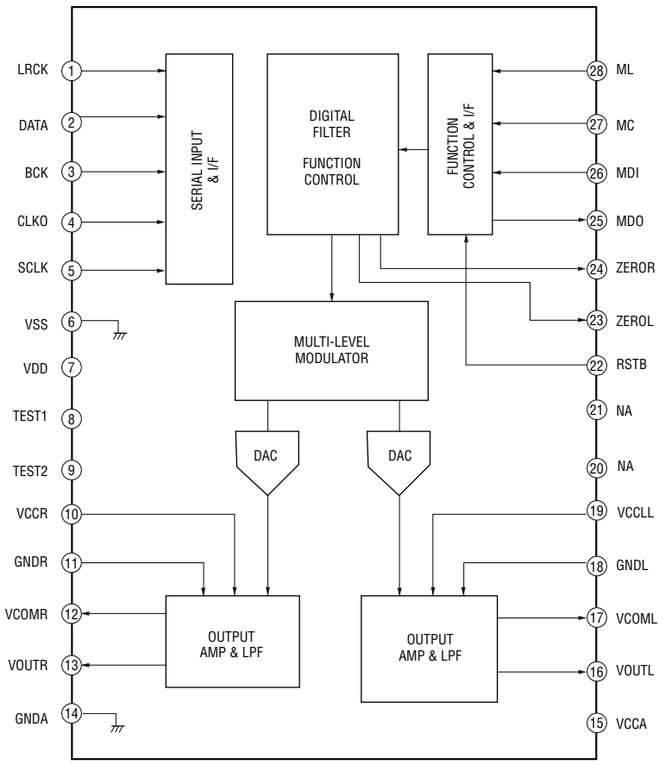
IC2101 BU1924F (DIGITAL BOARD)



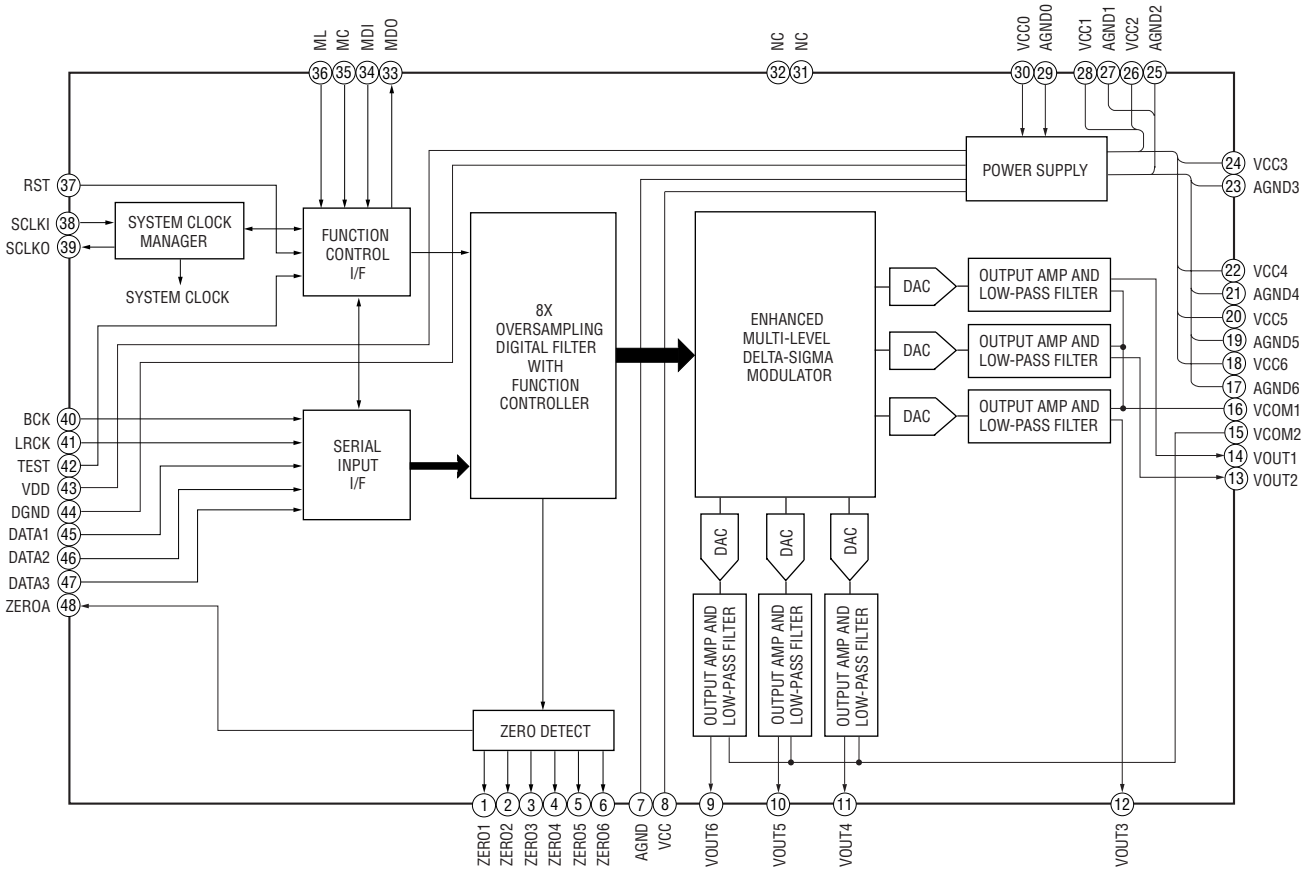
IC1104 TC7WH157FU (DIGITAL BOARD)
IC1205 TC7WH157FU (DIGITAL BOARD)



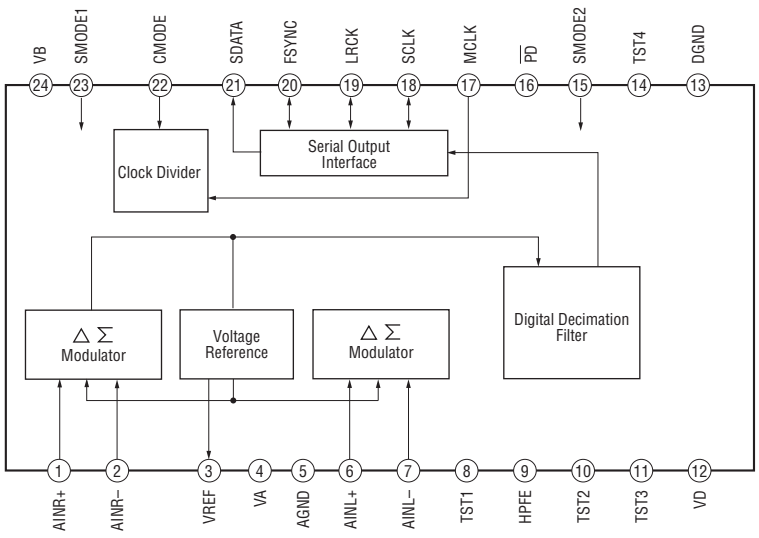
IC1601 PCM1737E-1/2K (DIGITAL BOARD)


LRCK DATA BCK CLKO SCLK VSS VDD TEST1 TEST2 VCCR GNDR VCOMR VOUTR GNDA
SERIAL INPUT & I/F
DIGITAL FILTER
FUNCTION CONTROL
FUNCTION CONTROL & I/F
MULTI-LEVEL MODULATOR
DAC
DAC
OUTPUT AMP & LPF
OUTPUT AMP & LPF
ML MC MDI MDO ZEROR ZEROL RSTB NA NA VCCLL GNDL VCOML VOUTL VCCA

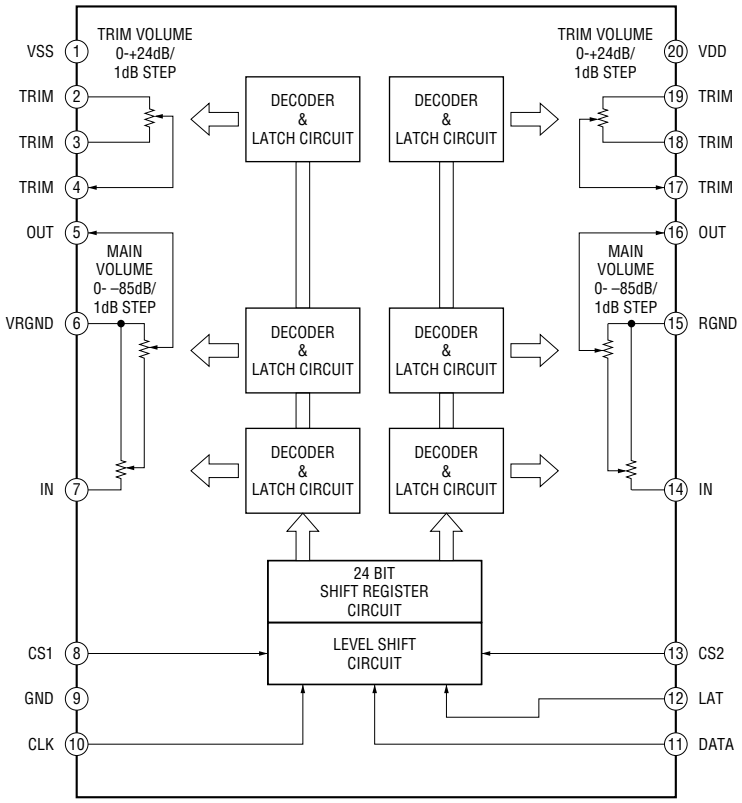
IC1602 PCM1604Y/2K (DIGITAL BOARD)



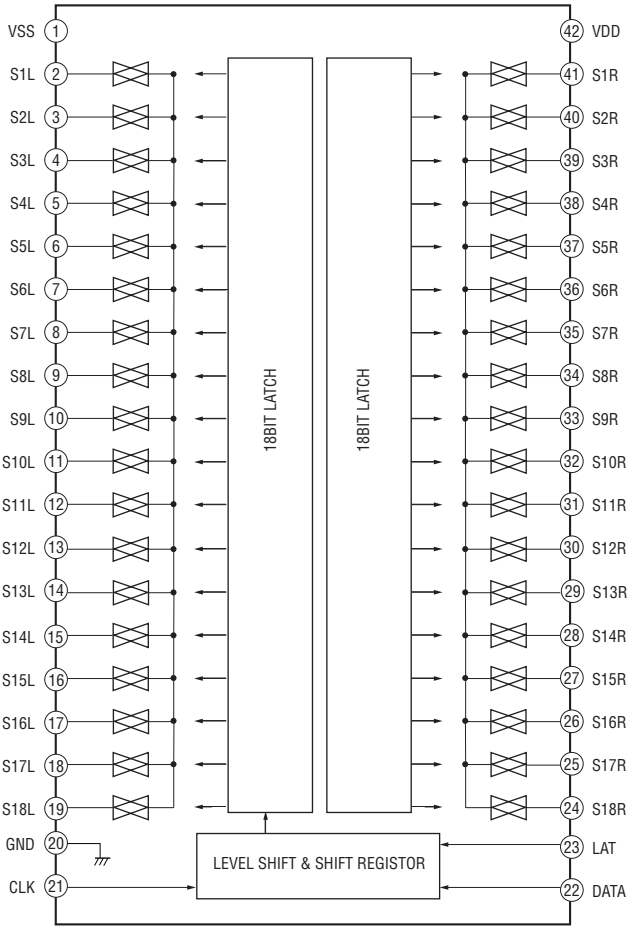
IC1701 AK5352-VF-E2 (DIGITAL BOARD)



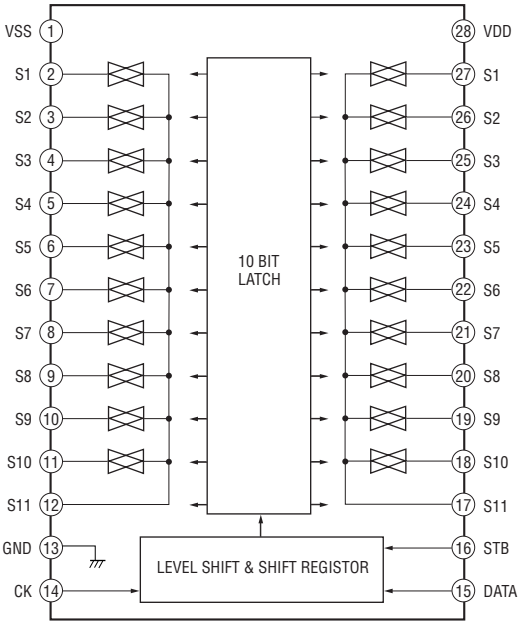
IC311 TC94A07 (INPUT BOARD)
IC411 TC94A07 (E-VOL BOARD)



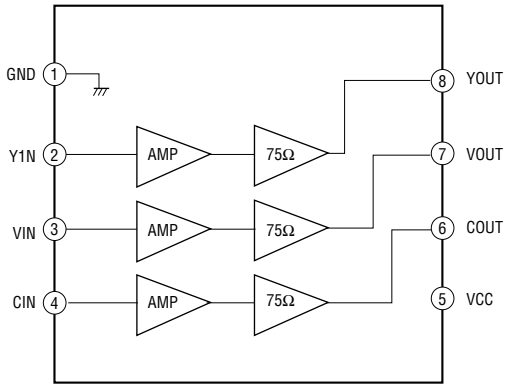
IC302 TC9274N-015 (INPUT BOARD)
IC303 TC9274N-015 (INPUT BOARD)
IC402 TC9274N-016 (E-VOL BOARD)



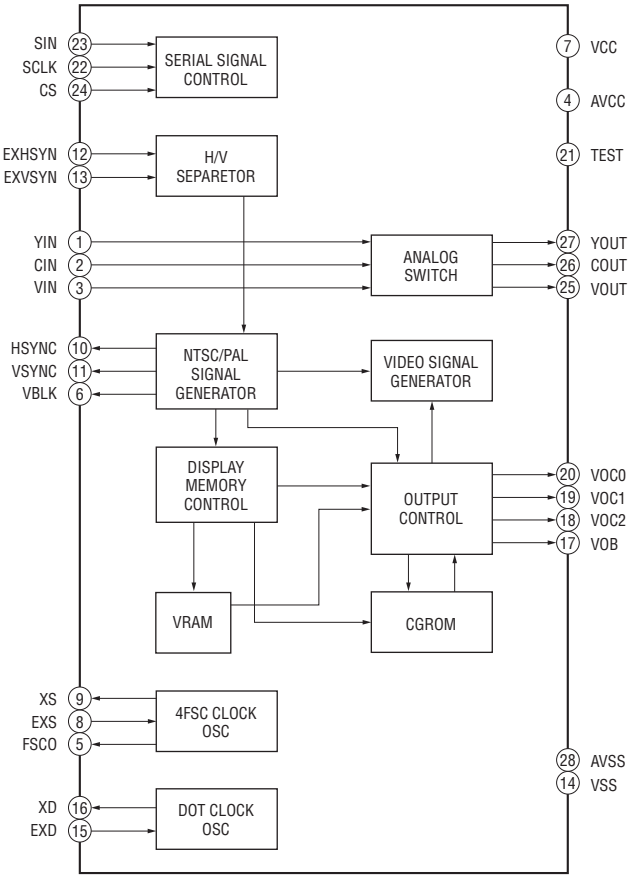
IC304 TC9273N-013 (INPUT BOARD)



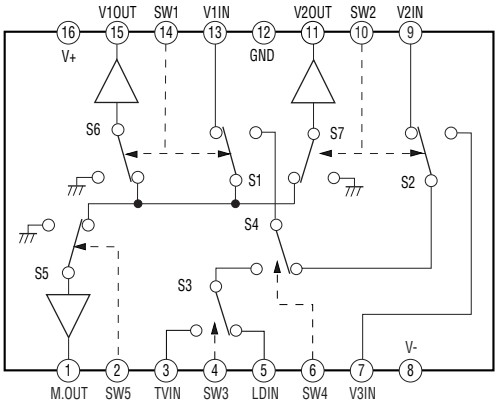
IC210 BA7622F (S-VIDEO BOARD)



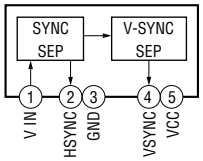
IC209 MB90089PF-G-238-BND (S-VIDEO BOARD)



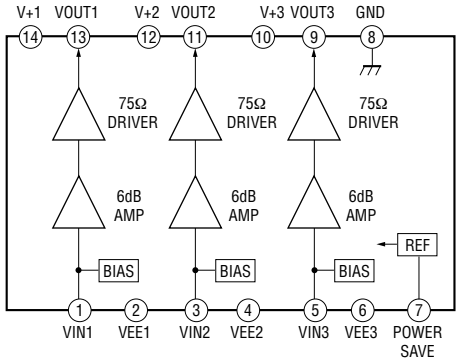
IC202 NJM2296M (S-VIDEO BOARD)
IC201 NJM2296M (C-VIDEO BOARD)
IC211 NJM2296M (C-VIDEO BOARD)



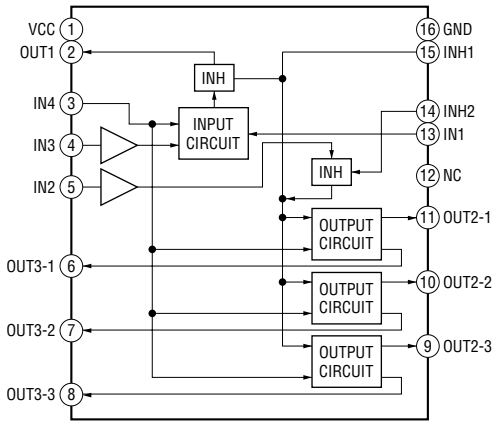
IC204 LA7213 (S-VIDEO BOARD)
IC205 LA7213 (S-VIDEO BOARD)



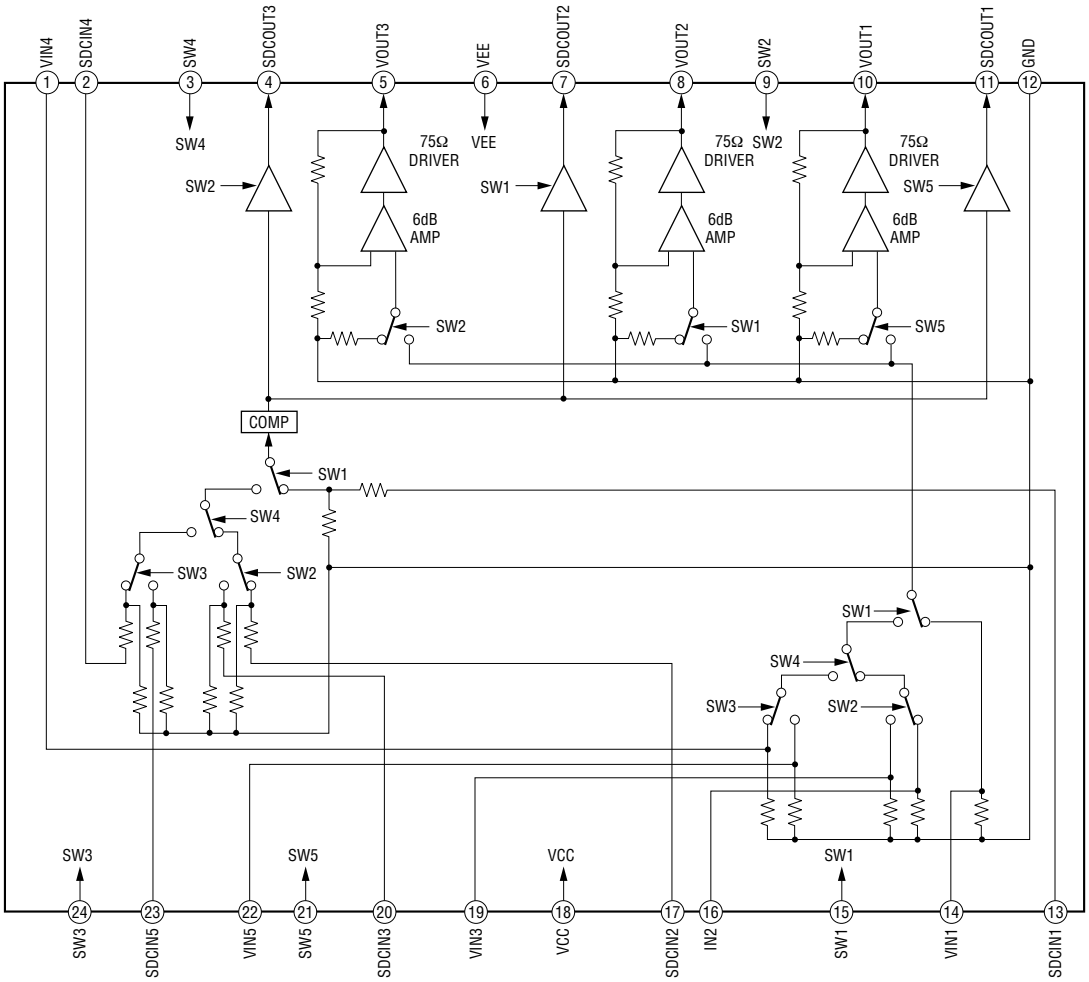
IC212 NJM2581D (C-VIDEO BOARD)



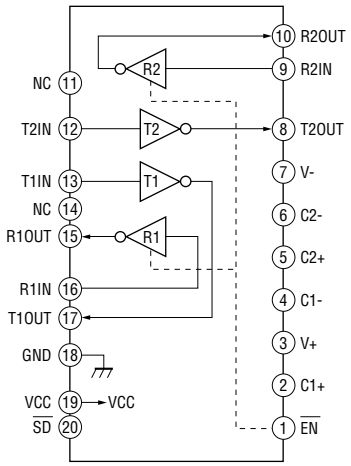
IC200 NJM2145M (M-BUS BOARD)



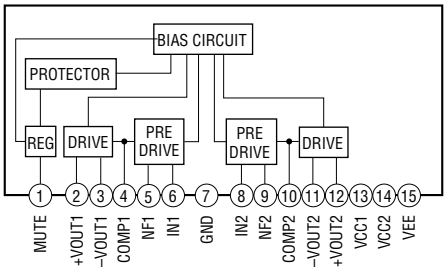
IC203 NJM2596M (S-VIDEO BOARD)



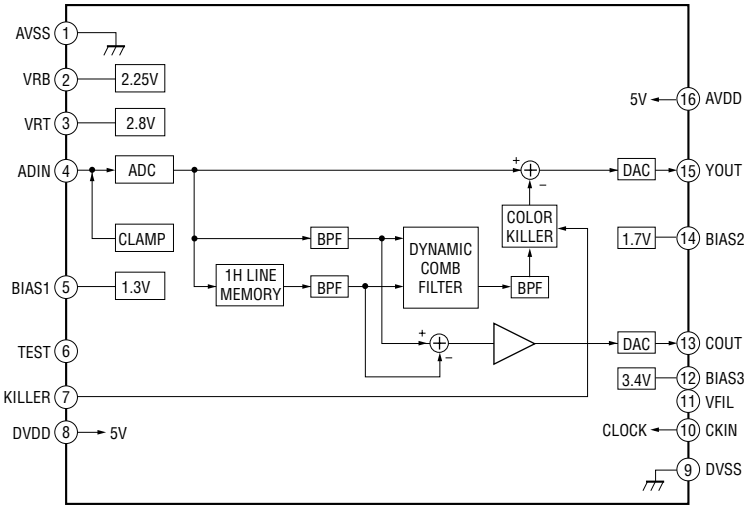
IC401 ADM3222 (E-VOL BOARD)



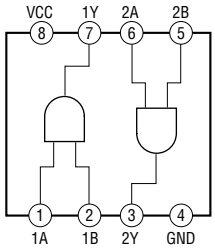
IC601 µPC2581V (A-CLASS BOARD)
IC701 µPC2581V (A-CLASS BOARD)
IC501 µPC2581V (AMP BOARD)
IC651 µPC2581V (AMP BOARD)



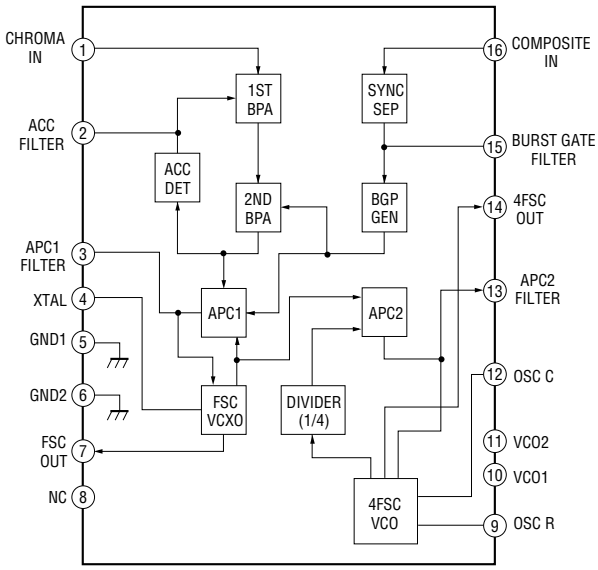
IC3100 TC90A45F (UP CONVERT BOARD)



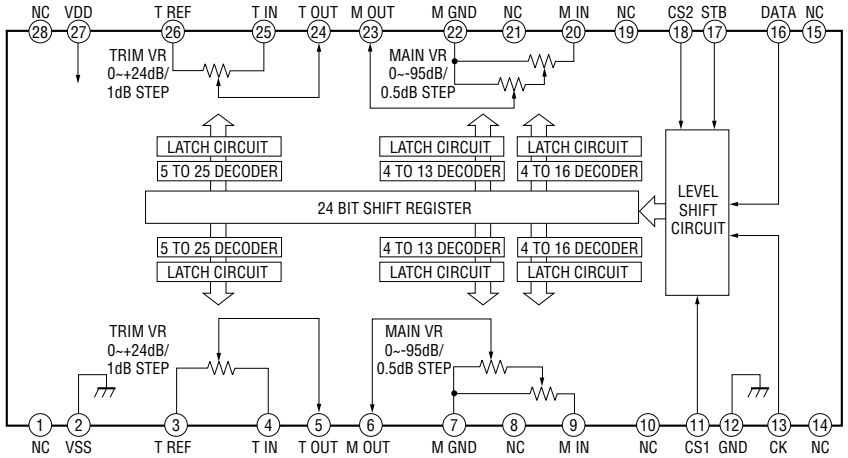
IC1008 TC7WH08FU (DIGITAL INPUT BOARD)



IC3101 MM1093NF (UP CONVERT BOARD)



IC403 CXD9725M (E-VOL BOARD)
IC404 CXD9725M (E-VOL BOARD)
IC405 CXD9725M (E-VOL BOARD)
IC406 CXD9725M (E-VOL BOARD)


NC 28 VDD 27 T REF 26 T IN 25 T OUT 24 M OUT 23 M GND 22 NC 21 M IN 20 NC 19 CS2 18 STB 17 DATA 16 NC 15
TRIM VR 0~+24dB/ 1dB STEP
MAIN VR 0~-95dB/ 0.5dB STEP
LATCH CIRCUIT
5 TO 25 DECODER
LATCH CIRCUIT
4 TO 13 DECODER
LATCH CIRCUIT
4 TO 16 DECODER
24 BIT SHIFT REGISTER
LEVEL SHIFT CIRCUIT
5 TO 25 DECODER
LATCH CIRCUIT
4 TO 13 DECODER
LATCH CIRCUIT
4 TO 16 DECODER
LATCH CIRCUIT
TRIM VR 0~+24dB/ 1dB STEP
MAIN VR 0~-95dB/ 0.5dB STEP
1 NC 2 VSS 3 T REF 4 T IN 5 T OUT 6 M OUT 7 M GND 8 NC 9 M IN 10 NC 11 CS1 12 GND 13 CK 14 NC

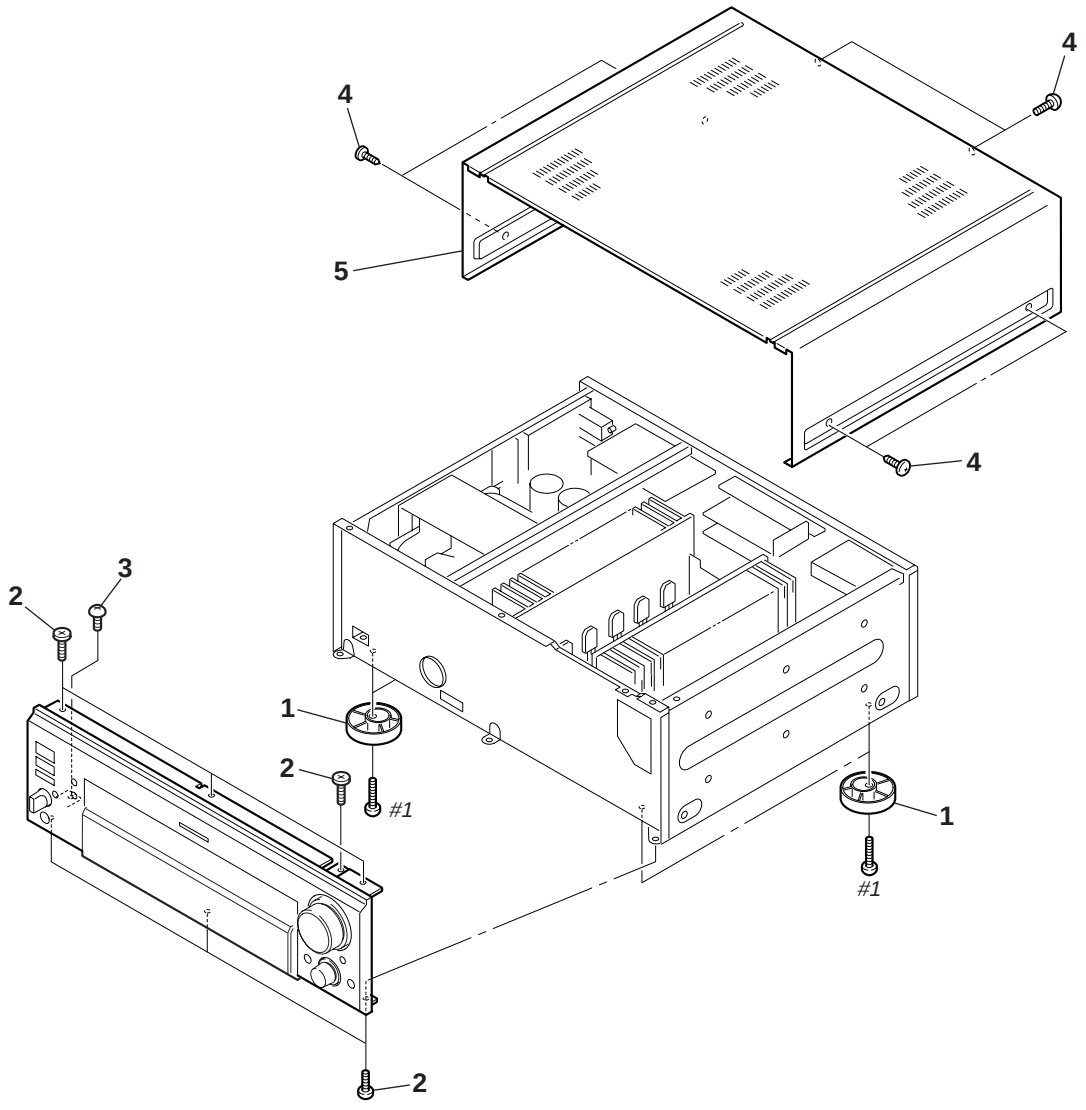
SECTION 7
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.
- Abbreviation
  CND : Canadian model
  TW : Taiwan model
  KR : Korea model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

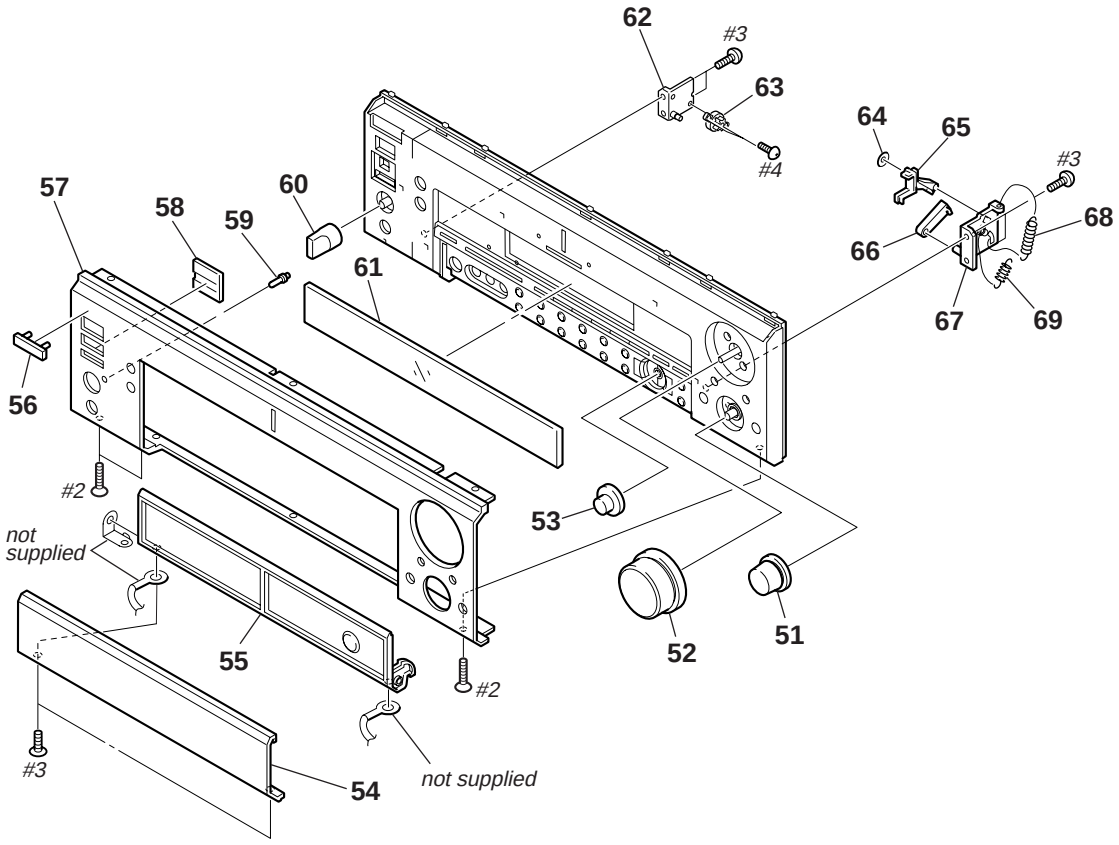
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

7-1. CASE SECTION



Ref. No.	Part No.	Description	Remark
1	X-4953-883-2	FOOT ASSY	
2	3-704-515-21	SCREW (BV/RING)	
3	4-974-510-11	SCREW (+BV 3X8 CU)	
4	4-227-843-01	SCREW (TP), FLAT HEAD (BLACK)...(BLACK)	
4	4-227-843-11	SCREW (TP), FLAT HEAD (GOLD)...(GOLD)	
5	4-222-052-71	CASE (GOLD)...(GOLD)	
5	4-222-052-91	CASE (BLACK)...(BLACK)	
#1	7-685-885-09	SCREW +BVTT 4X16 (S)	

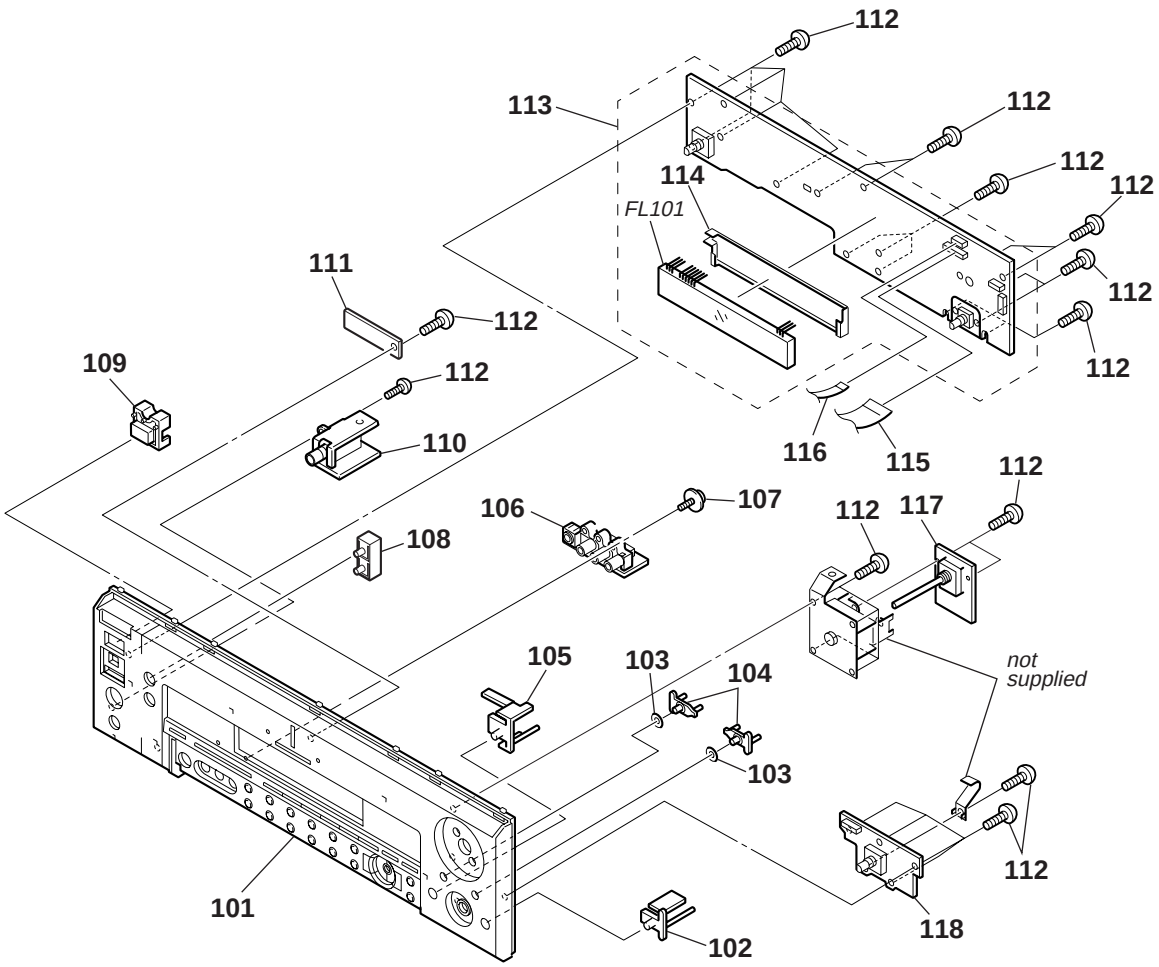
7-2. FRONT PANEL SECTION (1)



Ref. No.	Part No.	Description	Remark
51	X-4951-912-1	KNOB (BAL) ASSY (BLACK)...(BLACK)	
51	X-4951-913-1	KNOB (BAL) ASSY (GOLD)...(GOLD)	
52	X-4954-943-1	KNOB (R54/B) ASSY (BLACK)...(BLACK)	
52	X-4954-944-1	KNOB (R54/N) ASSY (GOLD)...(GOLD)	
53	4-228-859-01	KNOB (JOG) (BLACK)...(BLACK)	
53	4-228-859-11	KNOB (JOG) (GOLD)...(GOLD)	
54	4-240-814-01	PANEL (DOOR) (DA7ES)	
54	4-240-814-11	PANEL (DOOR) (DA4ES)	
54	4-240-814-21	PANEL (DOOR) (AEP:BLACK)	
54	4-240-814-31	PANEL (DOOR) (AEP:GOLD)	
54	4-240-814-41	PANEL (DOOR) (TW,KR)	
55	4-228-839-03	DOOR (BASE) (BLACK)...(BLACK)	
55	4-228-839-12	DOOR (BASE) (GOLD)...(GOLD)	
56	4-942-568-41	EMBLEM (NO.5), SONY (BLACK)	
57	4-240-815-01	PANEL (D7), FRONT (DA7ES)	
57	4-240-815-11	PANEL (D7), FRONT (DA4ES)	
57	4-240-815-21	PANEL (D7), FRONT (VA333ES:BLACK)	
57	4-240-815-31	PANEL (D7), FRONT (VA333ES:GOLD)	

Ref. No.	Part No.	Description	Remark
58	4-228-862-11	WINDOW (IR) (GOLD)...(GOLD)	
58	4-234-092-01	WINDOW (IR) (BLACK)...(BLACK)	
59	X-4950-462-1	LENS ASSY, LED (DA4ES/DA7ES)	
60	4-957-383-01	KNOB (F14) (BLACK)...(BLACK)	
60	4-957-383-21	KNOB (F14) (GOLD)...(GOLD)	
61	4-234-224-11	PLATE (B), INDICATION (BLACK)...(BLACK)	
61	4-234-225-11	PLATE (M), INDICATION (GOLD)...(GOLD)	
62	X-4952-961-1	BRACKET (DL) ASSY	
63	4-240-391-01	DAMPER, OIL	
64	3-167-330-01	WASHER	
65	4-228-857-01	ARM, DOOR LOCK	
66	4-228-858-01	ARM	
67	X-4952-962-1	BRACKET (DR) ASSY	
68	4-228-860-01	SPRING, TENSION	
69	4-228-861-01	SPRING, TENSION	
#2	7-685-536-19	SCREW +BTP 2.6X12 TYPE2 N-S	
#3	7-685-234-19	SCREW +KTP 2.6X8 TYPE2 NON-SLIT	
#4	7-685-853-04	SCREW +BVTT 2X6 (S)	

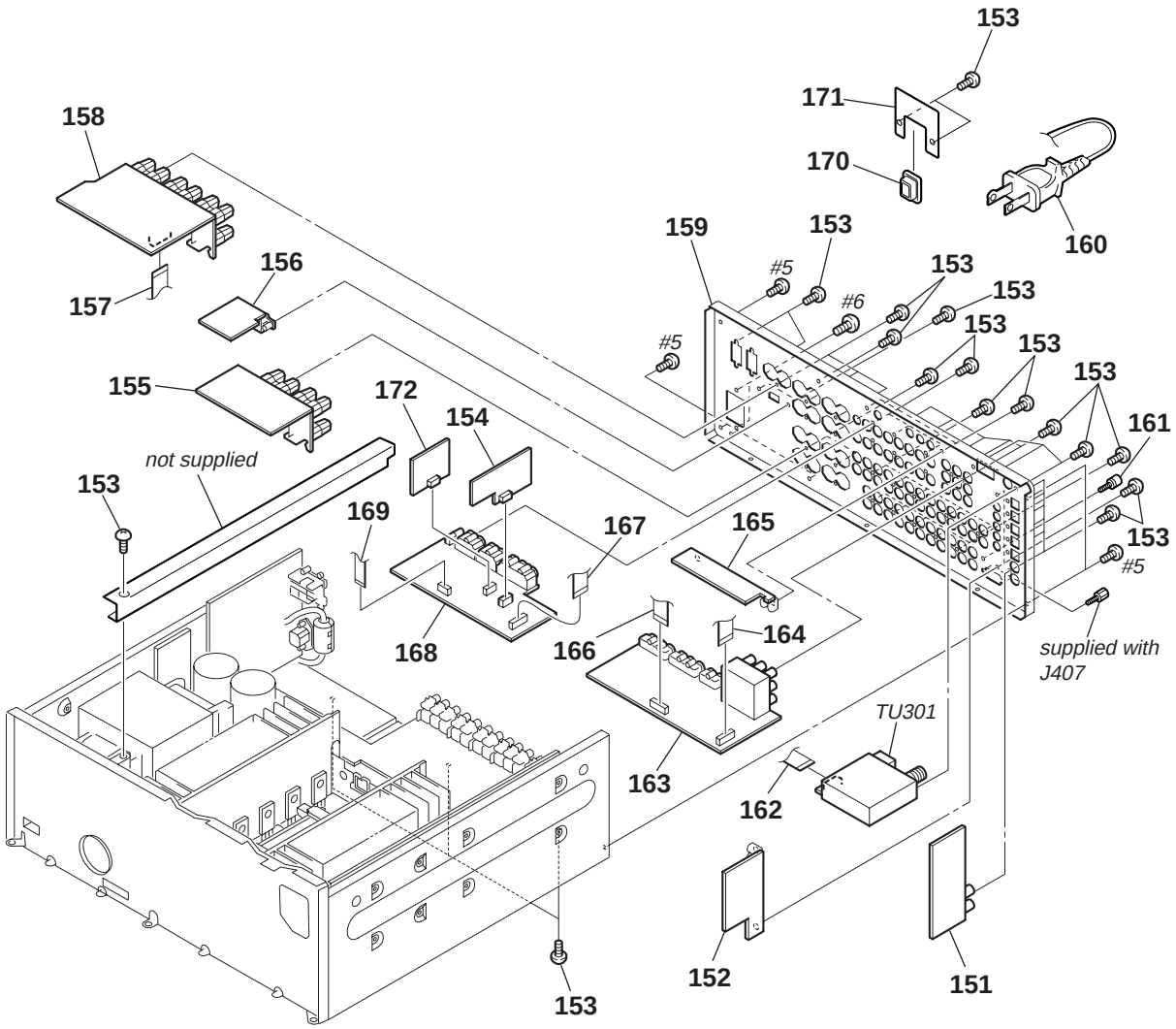
7-3. FRONT PANEL SECTION (2)



Ref. No.	Part No.	Description	Remark
101	X-4954-795-1	BASE (B) ASSY, PANEL (BLACK)...(BLACK)	(DA7ES)
101	X-4954-796-1	BASE (B) ASSY, PANEL (BLACK)...(BLACK)	(DA4ES)
101	X-4954-797-1	BASE (N) ASSY, PANEL (GOLD)...(GOLD)	(AEP:GOLD)
101	X-4954-799-1	BASE (B) ASSY, PANEL (BLACK)...(BLACK)	(AEP:BLACK)
101	X-4954-800-1	BASE (N) ASSY, PANEL (GOLD)...(GOLD)	(TW,KR)
102	4-228-849-01	BUTTON (E) (BLACK)...(BLACK)	
102	4-228-849-11	BUTTON (E) (GOLD)...(GOLD)	
103	4-228-856-01	PLATE (BUTTON F), SHADING	
104	4-228-850-01	BUTTON (F)	
105	4-228-848-01	BUTTON (D) (BLACK)...(BLACK)	
105	4-228-848-11	BUTTON (D) (GOLD)...(GOLD)	
106	1-685-490-11	VIDEO3 BOARD	

Ref. No.	Part No.	Description	Remark
107	4-933-134-11	SCREW (+PTPWH M2.6X8)	
108	X-4953-779-1	BUTTON (G) (B) ASSY (BLACK)...(BLACK)	
108	X-4953-780-1	BUTTON (G) (N) ASSY (GOLD)...(GOLD)	
109	4-998-592-01	BUTTON (POWER) (BLACK)...(BLACK)	
109	4-998-592-12	BUTTON (POWER) (GOLD)...(GOLD)	
110	1-685-488-11	HP BOARD	
111	1-685-491-11	LED BOARD	
112	4-951-620-01	SCREW (2.6X8), +BVTP	
113	A-4728-901-A	DISPLAY BOARD, COMPLETE (VA333ES)	
113	A-4728-931-A	DISPLAY BOARD, COMPLETE (DA4ES/DA7ES)	
114	4-228-836-01	HOLDER, FL TUBE	
115	1-773-162-11	WIRE (FLAT TYPE) (21 CORE)	
116	1-773-021-11	WIRE (FLAT TYPE) (15 CORE)	
117	1-685-489-11	VOLUME BOARD	
118	1-685-487-11	FUNCTION BOARD	
FL101	1-518-747-11	INDICATOR TUBE, FLUORESCENT	

7-4. REAR SECTION

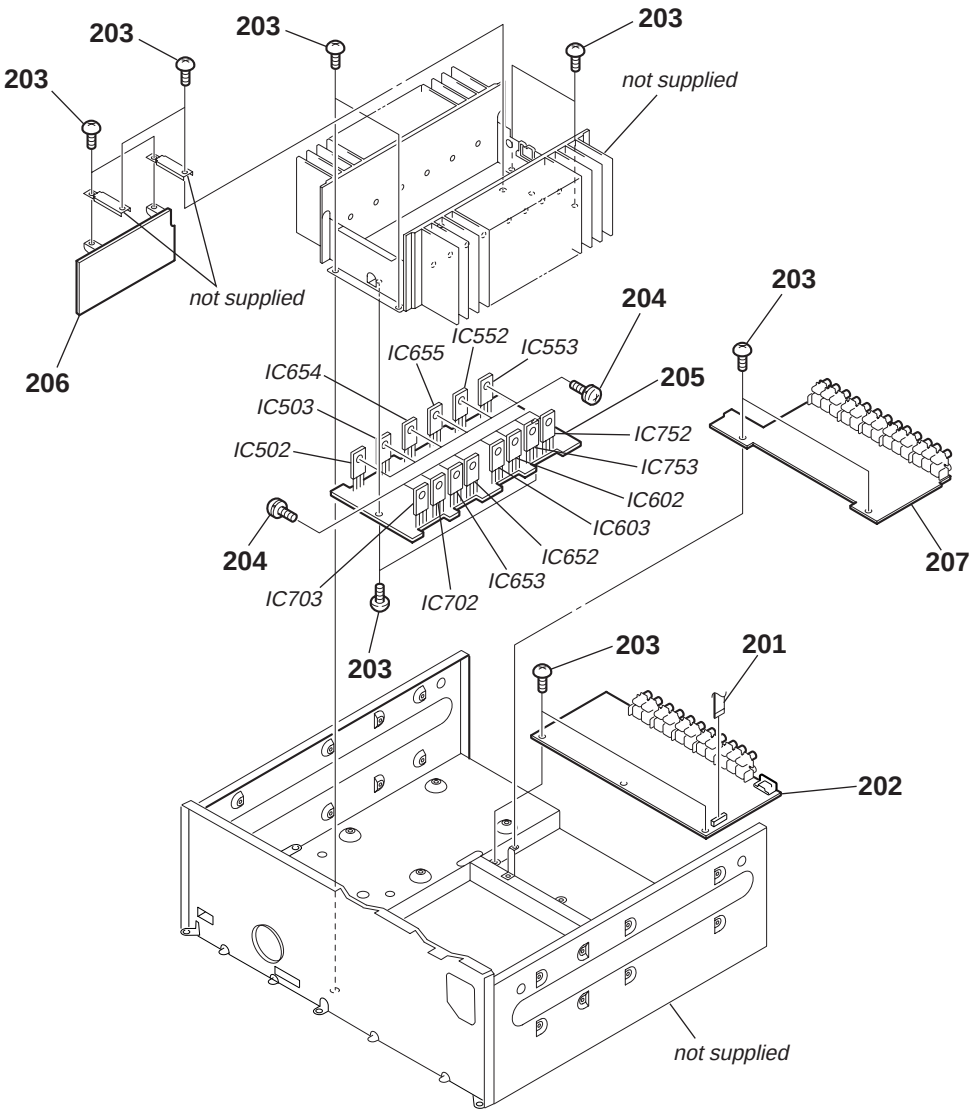


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
151	A-4728-944-A	DIGITAL INPUT BOARD, COMPLETE (DA4ES/DA7ES)	
151	A-4728-979-A	DIGITAL INPUT BOARD, COMPLETE (VA333ES)	
152	A-4728-882-A	CIS BOARD, COMPLETE (DA4ES)	
152	A-4728-921-A	CIS BOARD, COMPLETE (DA7ES)	
153	4-974-510-11	SCREW (+BV 3X8 CU)	
154	A-4728-955-A	UP CONVERT BOARD, COMPLETE (DA4ES/DA7ES)	
155	A-4728-941-A	S-SPTM BOARD, COMPLETE (DA4ES/DA7ES)	
155	A-4728-905-A	S-SPTM BOARD, COMPLETE (VA333ES)	
156	1-685-494-11	4/8 BOARD	
157	1-773-021-11	WIRE (FLAT TYPE) (15 CORE)	
158	A-4728-904-A	F-SPTM BOARD, COMPLETE (VA333ES)	
158	A-4728-940-A	F-SPTM BOARD, COMPLETE (DA4ES/DA7ES)	
159	4-234-163-01	PANEL (V5), BACK (DA4ES)	
159	4-234-163-41	PANEL (V5), BACK (AEP)	
⚠160	1-769-079-22	CORD, POWER (KR)	
161	4-947-010-01	SCREW, FEEDER FIXED	
162	1-823-582-11	WIRE (FLAT TYPE) (15 CORE)	

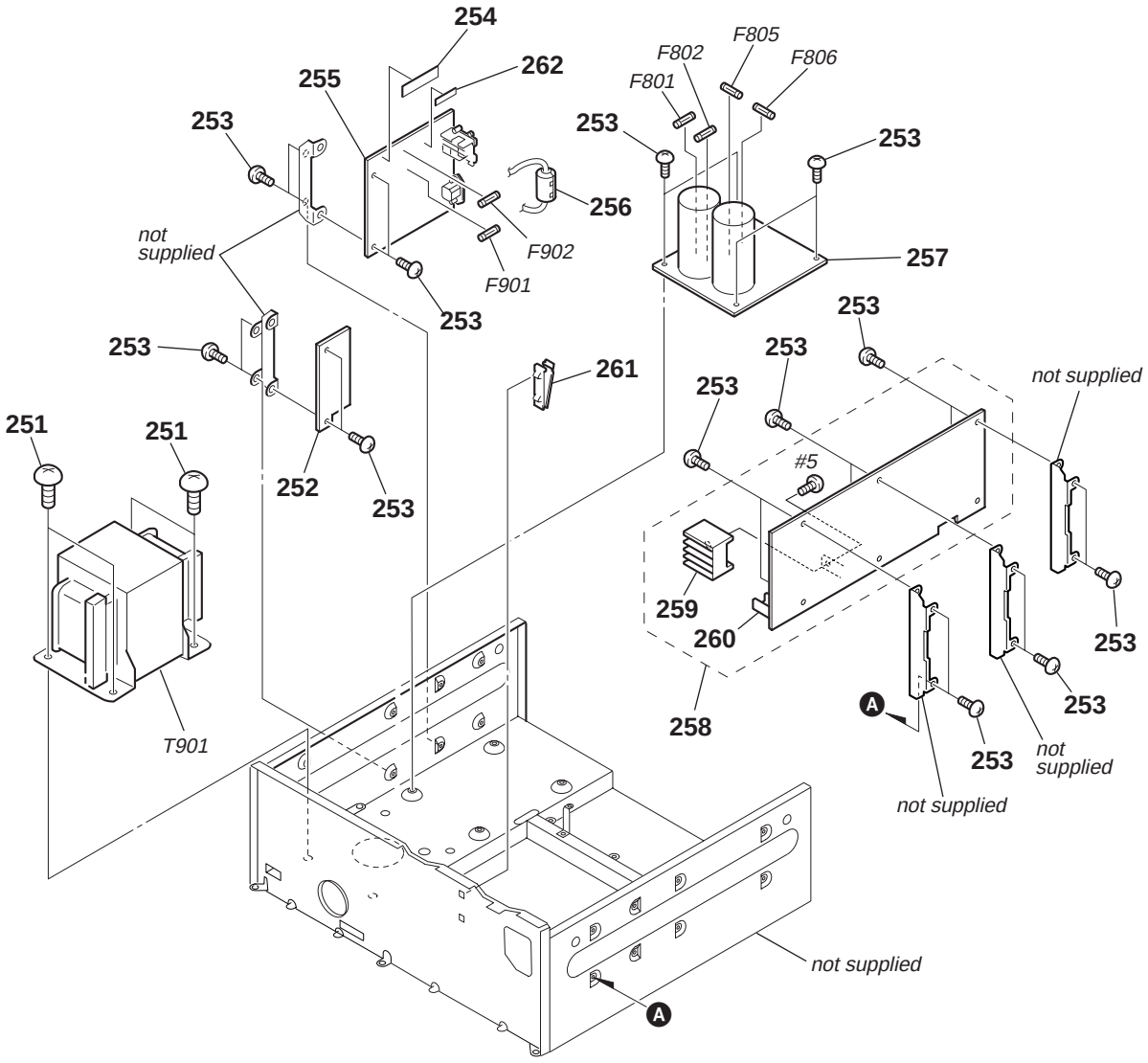
Ref. No.	Part No.	Description	Remark
163	A-4728-909-A	C-VIDEO BOARD, COMPLETE (AEP)	
163	A-4728-951-A	C-VIDEO BOARD, COMPLETE (DA4ES/DA7ES)	
163	A-4729-682-A	C-VIDEO BOARD, COMPLETE (TW,KR)	
164	1-769-971-11	WIRE (FLAT TYPE) (13 CORE)	
165	A-4728-919-A	M-BUS BOARD, COMPLETE (DA4ES/DA7ES)	
166	1-769-969-11	WIRE (FLAT TYPE) (13 CORE)	
167	1-769-975-11	WIRE (FLAT TYPE) (13 CORE)	
168	A-4728-903-A	S-VIDEO BOARD, COMPLETE (AEP)	
168	A-4728-938-A	S-VIDEO BOARD, COMPLETE (DA4ES/DA7ES)	
168	A-4728-965-A	S-VIDEO BOARD, COMPLETE (TW,KR)	
169	1-769-879-11	WIRE (FLAT TYPE) (7 CORE) (DA4ES/DA7ES)	
* 170	3-703-244-00	BUSHING (2104), CORD (KR)	
* 171	4-923-873-01	BRACKET, CORD STOPPER (KR)	
172	A-4728-895-A	CLOCK BOARD, COMPLETE (AEP)	
TU301	1-693-539-21	TUNER PACK (FM/AM) (DA4ES/DA7ES)	
TU301	1-693-540-21	TUNER PACK (FM/AM) (VA333ES)	
#5	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#6	7-685-659-79	SCREW +BVTP 4X8 TYPE2 IT-3	

7-5. CHASSIS SECTION (1)



Ref. No.	Part No.	Description	Remark
201	1-769-971-11	WIRE (FLAT TYPE) (13 CORE)	
202	A-4728-878-A	E-VOL BOARD, COMPLETE (DA4ES)	
202	A-4728-891-A	E-VOL BOARD, COMPLETE (VA333ES)	
202	A-4728-911-A	E-VOL BOARD, COMPLETE (DA7ES)	
203	4-974-510-11	SCREW (+BV 3X8 CU)	
204	3-905-609-11	SCREW (TRANSISTOR)	
205	A-4728-907-A	AMP BOARD, COMPLETE (VA333ES)	
205	A-4728-947-A	AMP BOARD, COMPLETE (DA4ES/DA7ES)	
206	A-4729-679-A	A-CLASS BOARD, COMPLETE (DA4ES/DA7ES)	
206	A-4729-681-A	A-CLASS BOARD, COMPLETE (VA333ES)	
207	A-4728-880-A	INPUT BOARD, COMPLETE (DA4ES)	
207	A-4728-893-A	INPUT BOARD, COMPLETE (VA333ES)	
207	A-4728-915-A	INPUT BOARD, COMPLETE (DA7ES)	
IC502	8-749-014-72	IC SAP15N	
IC503	8-749-014-73	IC SAP15P	
IC552	8-749-014-72	IC SAP15N	
IC553	8-749-014-73	IC SAP15P	
IC602	8-749-014-72	IC SAP15N	
IC603	8-749-014-73	IC SAP15P	
IC652	8-749-014-72	IC SAP15N	
IC653	8-749-014-73	IC SAP15P	
IC654	8-749-014-72	IC SAP15N	
IC655	8-749-014-73	IC SAP15P	
IC702	8-749-014-72	IC SAP15N	
IC703	8-749-014-73	IC SAP15P	
IC752	8-749-014-72	IC SAP15N	
IC753	8-749-014-73	IC SAP15P	

7-6. CHASSIS SECTION (2)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
251	4-394-596-01	SCREW (M5), TERMINAL	
252	A-4729-692-A	CIS POWER BOARD, COMPLETE (DA4ES/DA7ES)	
253	4-974-510-11	SCREW (+BV 3X8 CU)	
* 254	3-703-044-26	LABEL, CAUTION (DA4ES/DA7ES)	
255	A-4728-908-A	AC BOARD, COMPLETE (AEP)	
255	A-4728-949-A	AC BOARD, COMPLETE (DA4ES/DA7ES)	
255	A-4728-966-A	AC BOARD, COMPLETE (KR)	
255	A-4728-985-A	AC BOARD, COMPLETE (TW)	
256	1-469-241-11	CORE, FERRITE (RFC-8 BK)	
257	A-4728-899-A	DC BOARD, COMPLETE (VA333ES)	
257	A-4728-927-A	DC BOARD, COMPLETE (DA4ES/DA7ES)	
258	A-4728-884-A	DIGITAL BOARD, COMPLETE (DA4ES)	
258	A-4728-897-A	DIGITAL BOARD, COMPLETE (AEP)	
258	A-4728-923-A	DIGITAL BOARD, COMPLETE (DA7ES)	
258	A-4728-962-A	DIGITAL BOARD, COMPLETE (TW,KR)	
* 259	3-309-144-21	HEAT SINK	
260	4-242-610-11	HEAT SINK (10) (DA4ES/DA7ES)	
261	4-308-119-02	HOLDER, WIRE	
262	3-701-946-31	LABEL, FUSE RATING (KR,TW)	

Ref. No.	Part No.	Description	Remark
⚠F801	1-533-312-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(10A/125V)
⚠F802	1-533-312-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(10A/125V)
⚠F805	1-532-464-51	FUSE, TIME-LAG (T2.5AL/250V) (VA333ES)	
⚠F805	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(4A/125V) (DA4ES/DA7ES)
⚠F806	1-532-464-51	FUSE, TIME-LAG (T2.5AL/250V) (VA333ES)	
⚠F806	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(4A/125V) (DA4ES/DA7ES)
⚠F901	1-532-325-00	FUSE, TIME-LAG (T6.3AL/250V) (AEP,KR)	
⚠F901	1-576-379-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(15A/250V) (US,CND,TW)
⚠F902	1-532-464-51	FUSE, TIME-LAG (T2.5AL/250V) (AEP)	
⚠T901	1-437-270-11	TRANSFORMER, POWER (US)	
⚠T901	1-437-271-11	TRANSFORMER, POWER (DA4ES:CND)	
⚠T901	1-437-272-11	TRANSFORMER, POWER (TW)	
⚠T901	1-437-274-11	TRANSFORMER, POWER (AEP,KR)	
⚠T901	1-437-872-11	TRANSFORMER, POWER (DA7ES:CND)	
#5	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

A-CLASS

SECTION 8
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable

When indicating parts by reference number, please include the board.

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH
- Abbreviation
  CND : Canadian model
  TW : Taiwan model
  KR : Korea model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
	A-4729-679-A	A-CLASS BOARD, COMPLETE (DA4ES/DA7ES)			
	A-4729-681-A	A-CLASS BOARD, COMPLETE (VA333ES)			
		**********			
		< CAPACITOR >			
C591	1-119-851-11	ELECT	22uF	20%	100V (VA333ES)
C591	1-128-883-11	ELECT	22uF	20%	100V (DA4ES/DA7ES)
C592	1-119-851-11	ELECT	22uF	20%	100V (VA333ES)
C592	1-128-883-11	ELECT	22uF	20%	100V (DA4ES/DA7ES)
C601	1-119-825-41	ELECT	22uF	20%	50V
C602	1-137-505-11	MYLAR	220PF	5%	50V
C603	1-102-233-00	CERAMIC	33PF	10%	500V
C604	1-102-230-00	CERAMIC	4PF	0.25PF	500V
C605	1-119-779-11	ELECT	220uF	20%	10V
C610	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C611	1-126-964-11	ELECT	10uF	20%	50V
C635	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C636	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C639	1-137-503-11	MYLAR	0.0001uF	5%	50V
C650	1-119-850-11	ELECT	10uF	20%	63V (VA333ES)
C650	1-128-868-11	ELECT	10uF	20%	63V (DA4ES/DA7ES)
C651	1-119-825-41	ELECT	22uF	20%	50V
C652	1-137-505-11	MYLAR	220PF	5%	50V
C653	1-102-233-00	CERAMIC	33PF	10%	500V
C654	1-102-230-00	CERAMIC	4PF	0.25PF	500V
C655	1-119-779-11	ELECT	220uF	20%	10V
C660	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C661	1-126-964-11	ELECT	10uF	20%	50V
C689	1-137-503-11	MYLAR	0.0001uF	5%	50V
C701	1-119-825-41	ELECT	22uF	20%	50V
C702	1-137-505-11	MYLAR	220PF	5%	50V
C703	1-102-233-00	CERAMIC	33PF	10%	500V
C704	1-102-230-00	CERAMIC	4PF	0.25PF	500V
C705	1-119-779-11	ELECT	220uF	20%	10V
C710	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C711	1-126-964-11	ELECT	10uF	20%	50V
C739	1-137-503-11	MYLAR	0.0001uF	5%	50V
C750	1-119-850-11	ELECT	10uF	20%	63V (VA333ES)
C750	1-128-868-11	ELECT	10uF	20%	63V (DA4ES/DA7ES)
C751	1-119-825-41	ELECT	22uF	20%	50V
C752	1-137-505-11	MYLAR	220PF	5%	50V
C753	1-102-233-00	CERAMIC	33PF	10%	500V
C754	1-102-230-00	CERAMIC	4PF	0.25PF	500V
C755	1-119-779-11	ELECT	220uF	20%	10V
C760	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C761	1-126-964-11	ELECT	10uF	20%	50V
C789	1-137-503-11	MYLAR	0.0001uF	5%	50V
		< CONNECTOR >			
CNP601	1-784-922-11	PIN, CONNECTOR 5P			
CNP603	1-779-978-11	PIN, CONNECTOR 3P			
CNP605	1-770-412-11	CONNECTOR, BOARD TO BOARD 6P			
CNP607	1-770-407-11	CONNECTOR, BOARD TO BOARD 12P			
CNP701	1-784-921-11	PIN, CONNECTOR 4P			
		< DIODE >			
D611	8-719-988-61	DIODE 1SS355TE-17			
D635	8-719-988-61	DIODE 1SS355TE-17			
D661	8-719-988-61	DIODE 1SS355TE-17			
D711	8-719-988-61	DIODE 1SS355TE-17			
D761	8-719-988-61	DIODE 1SS355TE-17			
		< IC >			
IC601	6-700-943-01	IC uPC2581V-S			
IC635	8-759-636-74	IC M5218AP-22			
IC701	6-700-943-01	IC uPC2581V-S			
		< TRANSISTOR >			
Q610	8-729-281-53	TRANSISTOR 2SC1815-GR			
Q635	8-729-027-52	TRANSISTOR DTC124EKA-T146			
Q660	8-729-281-53	TRANSISTOR 2SC1815-GR			
Q710	8-729-281-53	TRANSISTOR 2SC1815-GR			
Q760	8-729-281-53	TRANSISTOR 2SC1815-GR			
		< RESISTOR >			
R601	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R601	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R602	1-208-571-11	RES-CHIP	68K	2%	1/8W (DA4ES/DA7ES)
R602	1-260-018-11	CARBON MELF	68K	2%	1/8W (VA333ES)
R603	1-249-494-11	CARBON	68K	5%	1/2W

Ref. No.	Part No.	Description			Remark
R604	1-249-683-31	CARBON	2.7K	5%	1/2W
R609	1-216-025-11	RES-CHIP	100	5%	1/10W
R611	1-216-085-11	RES-CHIP	33K	5%	1/10W
R612	1-216-073-00	RES-CHIP	10K	5%	1/10W
R613	1-216-077-11	RES-CHIP	15K	5%	1/10W
R614	1-216-081-00	METAL CHIP	22K	5%	1/10W
R615	1-216-081-00	METAL CHIP	22K	5%	1/10W
R635	1-216-073-00	RES-CHIP	10K	5%	1/10W
R636	1-216-089-11	RES-CHIP	47K	5%	1/10W
R637	1-216-113-00	METAL CHIP	470K	5%	1/10W
R638	1-216-049-11	RES-CHIP	1K	5%	1/10W
R639	1-216-073-00	RES-CHIP	10K	5%	1/10W
R640	1-216-081-00	METAL CHIP	22K	5%	1/10W
R643	1-216-230-00	RES-CHIP	22K	2%	1/8W (DA4ES/DA7ES)
R643	1-260-012-11	CARBON MELF	22K	2%	1/8W (VA333ES)
R651	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R651	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R652	1-208-571-11	RES-CHIP	68K	2%	1/8W (DA4ES/DA7ES)
R652	1-260-018-11	CARBON MELF	68K	2%	1/8W (VA333ES)
R653	1-249-494-11	CARBON	68K	5%	1/2W
R654	1-249-683-31	CARBON	2.7K	5%	1/2W
R657	1-216-085-11	RES-CHIP	33K	5%	1/10W
R658	1-216-073-00	RES-CHIP	10K	5%	1/10W
R659	1-216-025-11	RES-CHIP	100	5%	1/10W
R667	1-216-077-11	RES-CHIP	15K	5%	1/10W
R668	1-216-081-00	METAL CHIP	22K	5%	1/10W
R669	1-216-081-00	METAL CHIP	22K	5%	1/10W
R701	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R701	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R702	1-208-571-11	RES-CHIP	68K	2%	1/8W (DA4ES/DA7ES)
R702	1-260-018-11	CARBON MELF	68K	2%	1/8W (VA333ES)
R703	1-249-494-11	CARBON	68K	5%	1/2W
R704	1-249-683-31	CARBON	2.7K	5%	1/2W
R709	1-216-025-11	RES-CHIP	100	5%	1/10W
R711	1-216-085-11	RES-CHIP	33K	5%	1/10W
R712	1-216-073-00	RES-CHIP	10K	5%	1/10W
R713	1-216-077-11	RES-CHIP	15K	5%	1/10W
R714	1-216-081-00	METAL CHIP	22K	5%	1/10W
R715	1-216-081-00	METAL CHIP	22K	5%	1/10W
R743	1-216-230-00	RES-CHIP	22K	2%	1/8W (DA4ES/DA7ES)
R743	1-260-012-11	CARBON MELF	22K	2%	1/8W (VA333ES)
R751	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R751	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R752	1-208-571-11	RES-CHIP	68K	2%	1/8W (DA4ES/DA7ES)
R752	1-260-018-11	CARBON MELF	68K	2%	1/8W (VA333ES)
R753	1-249-494-11	CARBON	68K	5%	1/2W
R754	1-249-683-31	CARBON	2.7K	5%	1/2W
R759	1-216-025-11	RES-CHIP	100	5%	1/10W
R761	1-216-085-11	RES-CHIP	33K	5%	1/10W
R762	1-216-073-00	RES-CHIP	10K	5%	1/10W
R763	1-216-077-11	RES-CHIP	15K	5%	1/10W
R764	1-216-081-00	METAL CHIP	22K	5%	1/10W
R765	1-216-081-00	METAL CHIP	22K	5%	1/10W

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	A-4728-908-A	AC BOARD, COMPLETE (AEP)			
	A-4728-949-A	AC BOARD, COMPLETE (DA4ES/DA7ES)			
	A-4728-966-A	AC BOARD, COMPLETE (KR)			
	A-4728-985-A	AC BOARD, COMPLETE (TW)			
		**********			
	1-533-399-31	HOLDER, FUSE			
		< CAPACITOR >			
C901	1-113-925-11	CERAMIC	0.01uF	20%	250V (AEP,KR)
C902	1-128-547-11	ELECT	6800uF	20%	16V
C903	1-126-943-11	ELECT	2200uF	20%	25V
C904	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C905	1-126-960-11	ELECT	1uF	20%	50V
C906	1-130-472-00	MYLAR	0.0012uF	5%	50V (AEP,KR)
C906	1-137-432-11	MYLAR	820PF	5%	50V (EXCEPT AEP,KR)
C907	1-137-150-11	MYLAR	0.01uF	5%	50V (EXCEPT AEP,KR)
C907	1-137-350-11	MYLAR	0.015uF	5%	50V (AEP,KR)
		< CONNECTOR >			
CNP901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P (KR)			
* CNP902	1-565-792-11	PIN, CONNECTOR (3.96mm PITCH) 2P			
CNP908	1-779-978-11	PIN, CONNECTOR 3P			
* CNP911	1-564-321-21	PIN, CONNECTOR (3.96mm PITCH) 2P			
		< AC INLET >			
CNP904	1-816-148-11	INLET, AC (~ AC IN) (EXCEPT KR)			
		< DIODE >			
D901	8-719-085-36	DIODE 11EQS04-TB5			
D902	8-719-085-36	DIODE 11EQS04-TB5			
D903	8-719-085-36	DIODE 11EQS04-TB5			
D904	8-719-085-36	DIODE 11EQS04-TB5			
D905	8-719-988-61	DIODE 1SS355TE-17			
D906	8-719-988-61	DIODE 1SS355TE-17			
D907	8-719-988-61	DIODE 1SS355TE-17			
D908	8-719-053-18	DIODE 1SR154-400TE-25			
		< TERMINAL >			
* EP901	1-537-738-21	TERMINAL, EARTH			
		< AC OUTLET >			
⚠J901	1-251-718-11	OUTLET (2 GANG), AC (AC OUTLET)			(EXCEPT AEP,KR)
⚠J901	1-785-285-11	OUTLET, AC (1P) (AC OUTLET) (AEP)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

AC AMP

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q901	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q902	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q903	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q904	8-729-140-93	TRANSISTOR 2SB733-34			
		< RESISTOR >			
⚠R901	1-219-237-11	SOLID	3.3M	20% 1/2W F (DA4ES/DA7ES)	
R902	1-216-073-00	RES-CHIP	10K	5% 1/10W	
R903	1-216-065-11	RES-CHIP	4.7K	5% 1/10W	
R904	1-216-093-11	RES-CHIP	68K	5% 1/10W	
R905	1-216-085-11	RES-CHIP	33K	5% 1/10W	
R906	1-216-049-11	RES-CHIP	1K	5% 1/10W (AEP)	
R906	1-216-053-00	METAL CHIP	1.5K	5% 1/10W (EXCEPT AEP,KR)	
R907	1-216-097-11	RES-CHIP	100K	5% 1/10W	
R908	1-216-073-00	RES-CHIP	10K	5% 1/10W	
R909	1-216-085-11	RES-CHIP	33K	5% 1/10W	
R910	1-216-073-00	RES-CHIP	10K	5% 1/10W	
		< RELAY >			
⚠RY901	1-755-388-11	RELAY (AC POWER) (DA4ES/DA7ES)			
⚠RY901	1-755-393-11	RELAY, POWER (VA333ES)			
		< TRANSFORMER >			
⚠T902	1-435-162-21	TRANSFORMER, POWER (DA4ES/DA7ES)			
⚠T902	1-435-163-21	TRANSFORMER, POWER (AEP,KR)			
⚠T902	1-437-477-12	TRANSFORMER, POWER (TW)			
**********					
	A-4728-907-A	AMP BOARD, COMPLETE (VA333ES)			
	A-4728-947-A	AMP BOARD, COMPLETE (DA4ES/DA7ES)			
		**********			
		< CAPACITOR >			
C500	1-119-850-11	ELECT	10uF	20% 63V (VA333ES)	
C500	1-128-868-11	ELECT	10uF	20% 63V (DA4ES/DA7ES)	
C501	1-119-825-41	ELECT	22uF	20% 50V	
C502	1-137-505-11	MYLAR	220PF	5% 50V	
C503	1-102-233-00	CERAMIC	33PF	10% 500V	
C504	1-102-230-00	CERAMIC	4PF	0.25PF 500V	
C505	1-119-779-11	ELECT	220uF	20% 10V	
C507	1-128-879-11	ELECT	2.2uF	20% 100V	
C520	1-119-827-11	ELECT	47uF	20% 50V (VA333ES)	
C520	1-128-860-11	ELECT	47uF	20% 50V (DA4ES/DA7ES)	
C523	1-163-125-00	CERAMIC CHIP	220PF	5% 50V	
C524	1-137-372-11	MYLAR	0.022uF	5% 50V	
C539	1-137-503-11	MYLAR	0.0001uF	5% 50V	
C541	1-128-858-11	ELECT	22uF	20% 50V	
C542	1-128-834-11	ELECT	470uF	20% 10V	
C551	1-119-825-41	ELECT	22uF	20% 50V	
C552	1-137-505-11	MYLAR	220PF	5% 50V	
C553	1-102-233-00	CERAMIC	33PF	10% 500V	
C554	1-102-230-00	CERAMIC	4PF	0.25PF 500V	
C555	1-119-779-11	ELECT	220uF	20% 10V	
C570	1-119-827-11	ELECT	47uF	20% 50V (VA333ES)	
C570	1-128-860-11	ELECT	47uF	20% 50V (DA4ES/DA7ES)	
C573	1-163-125-00	CERAMIC CHIP	220PF	5% 50V	
C574	1-137-372-11	MYLAR	0.022uF	5% 50V	
C589	1-137-503-11	MYLAR	0.0001uF	5% 50V	
C593	1-126-077-11	ELECT	100uF	20% 100V	
C594	1-126-077-11	ELECT	100uF	20% 100V	
C595	1-128-883-11	ELECT	22uF	20% 100V	
C596	1-128-883-11	ELECT	22uF	20% 100V	
C597	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C600	1-119-850-11	ELECT	10uF	20% 63V (VA333ES)	
C600	1-128-868-11	ELECT	10uF	20% 63V (DA4ES/DA7ES)	
C608	1-130-777-00	MYLAR	0.1uF	10% 100V	
C609	1-130-777-00	MYLAR	0.1uF	10% 100V	
C620	1-119-827-11	ELECT	47uF	20% 50V (VA333ES)	
C620	1-128-860-11	ELECT	47uF	20% 50V (DA4ES/DA7ES)	
C623	1-163-125-00	CERAMIC CHIP	220PF	5% 50V	
C624	1-137-372-11	MYLAR	0.022uF	5% 50V	
C670	1-119-827-11	ELECT	47uF	20% 50V (VA333ES)	
C670	1-128-860-11	ELECT	47uF	20% 50V (DA4ES/DA7ES)	
C673	1-163-125-00	CERAMIC CHIP	220PF	5% 50V	
C674	1-137-372-11	MYLAR	0.022uF	5% 50V	
C681	1-119-825-41	ELECT	22uF	20% 50V	
C682	1-137-505-11	MYLAR	220PF	5% 50V	
C683	1-119-779-11	ELECT	220uF	20% 10V	
C684	1-102-230-00	CERAMIC	4PF	0.25PF 500V	
C685	1-102-233-00	CERAMIC	33PF	10% 500V	
C687	1-137-503-11	MYLAR	0.0001uF	5% 50V	
C691	1-119-827-11	ELECT	47uF	20% 50V (VA333ES)	
C691	1-128-860-11	ELECT	47uF	20% 50V (DA4ES/DA7ES)	
C692	1-163-125-00	CERAMIC CHIP	220PF	5% 50V	
C693	1-137-372-11	MYLAR	0.022uF	5% 50V	
C720	1-119-827-11	ELECT	47uF	20% 50V (VA333ES)	
C720	1-128-860-11	ELECT	47uF	20% 50V (DA4ES/DA7ES)	
C723	1-163-125-00	CERAMIC CHIP	220PF	5% 50V	
C724	1-137-372-11	MYLAR	0.022uF	5% 50V	
C770	1-119-827-11	ELECT	47uF	20% 50V (VA333ES)	
C770	1-128-860-11	ELECT	47uF	20% 50V (DA4ES/DA7ES)	
C773	1-163-125-00	CERAMIC CHIP	220PF	5% 50V	
C774	1-137-372-11	MYLAR	0.022uF	5% 50V	
		< CONNECTOR >			
CN504	1-785-102-11	PIN, CONNECTOR (3.96mm PITCH) 4P			
CNP501	1-779-977-11	PIN, CONNECTOR 6P			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
CNP503	1-785-104-11	PIN, CONNECTOR (3.96mm PITCH) 6P	
CNP504	1-784-923-11	PIN, CONNECTOR 7P	
CNP505	1-785-102-21	PIN, CONNECTOR (3.96mm PITCH) 4P	
CNP509	1-564-320-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
CNP602	1-779-978-21	PIN, CONNECTOR 3P	
CNP606	1-770-379-11	CONNECTOR, BOARD TO BOARD 6P	
CNP608	1-770-382-11	CONNECTOR, BOARD TO BOARD 12P	
CNP702	1-785-103-11	PIN, CONNECTOR (3.96mm PITCH) 5P	
		< DIODE >	
D501	8-719-988-61	DIODE 1SS355TE-17	
D502	8-719-036-66	DIODE RD2.2SB-T1	
D503	8-719-036-66	DIODE RD2.2SB-T1	
D504	8-719-988-61	DIODE 1SS355TE-17	
D505	8-719-988-61	DIODE 1SS355TE-17	
D547	8-719-988-61	DIODE 1SS355TE-17	
D548	8-719-988-61	DIODE 1SS355TE-17	
D549	8-719-988-61	DIODE 1SS355TE-17	
D551	8-719-988-61	DIODE 1SS355TE-17	
D552	8-719-036-66	DIODE RD2.2SB-T1	
D553	8-719-036-66	DIODE RD2.2SB-T1	
D554	8-719-988-61	DIODE 1SS355TE-17	
D555	8-719-988-61	DIODE 1SS355TE-17	
D591	8-719-083-61	DIODE UDZS-TE-17-11B (US, CND)	
D591	8-719-083-63	DIODE UDZS-TE-17-13B (EXCEPT US, CND)	
D592	8-719-083-82	DIODE UDZS-TE-17-12B (EXCEPT US, CND)	
D592	8-719-977-28	DIODE UDZS-TE-17-10B (US, CND)	
D593	8-719-988-61	DIODE 1SS355TE-17	
D594	8-719-988-61	DIODE 1SS355TE-17	
D599	8-719-988-61	DIODE 1SS355TE-17	
D601	8-719-988-61	DIODE 1SS355TE-17	
D602	8-719-036-66	DIODE RD2.2SB-T1	
D603	8-719-036-66	DIODE RD2.2SB-T1	
D604	8-719-988-61	DIODE 1SS355TE-17	
D605	8-719-988-61	DIODE 1SS355TE-17	
D651	8-719-988-61	DIODE 1SS355TE-17	
D652	8-719-036-66	DIODE RD2.2SB-T1	
D653	8-719-036-66	DIODE RD2.2SB-T1	
D654	8-719-988-61	DIODE 1SS355TE-17	
D655	8-719-988-61	DIODE 1SS355TE-17	
D671	8-719-988-61	DIODE 1SS355TE-17	
D672	8-719-036-66	DIODE RD2.2SB-T1	
D673	8-719-036-66	DIODE RD2.2SB-T1	
D674	8-719-988-61	DIODE 1SS355TE-17	
D675	8-719-988-61	DIODE 1SS355TE-17	
D701	8-719-988-61	DIODE 1SS355TE-17	
D702	8-719-036-66	DIODE RD2.2SB-T1	
D703	8-719-036-66	DIODE RD2.2SB-T1	
D704	8-719-988-61	DIODE 1SS355TE-17	
D705	8-719-988-61	DIODE 1SS355TE-17	
D751	8-719-988-61	DIODE 1SS355TE-17	
D752	8-719-036-66	DIODE RD2.2SB-T1	
D753	8-719-036-66	DIODE RD2.2SB-T1	
D754	8-719-988-61	DIODE 1SS355TE-17	
D755	8-719-988-61	DIODE 1SS355TE-17	
		< IC >	
IC501	6-700-943-01	IC uPC2581V-S	
IC651	6-700-943-01	IC uPC2581V-S	

Ref. No.	Part No.	Description	Remark
		< TRANSISTOR >	
Q501	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q503	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q508	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q509	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q547	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q548	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q549	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q558	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q559	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q591	8-729-021-82	TRANSISTOR 2SD2396K	
Q592	8-729-024-93	TRANSISTOR 2SB1565E	
Q593	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q599	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q608	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q609	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q651	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q652	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q658	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q659	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q708	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q709	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q758	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q759	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
		< RESISTOR >	
R501	1-208-782-11	RES-CHIP 1K 2% 1/8W	(DA4ES/DA7ES)
R501	1-259-995-11	CARBON MELF 1K 2% 1/8W	(VA333ES)
R502	1-208-571-11	RES-CHIP 68K 2% 1/8W	(DA4ES/DA7ES)
R502	1-260-018-11	CARBON MELF 68K 2% 1/8W	(VA333ES)
R503	1-249-494-11	CARBON 68K 5% 1/2W	
R504	1-249-683-31	CARBON 2.7K 5% 1/2W	
R505	1-216-089-11	RES-CHIP 47K 5% 1/10W	
R509	1-216-025-11	RES-CHIP 100 5% 1/10W	
R510	1-215-868-00	METAL OXIDE 680 5% 1W	
R521	1-216-055-00	METAL CHIP 1.8K 5% 1/10W	
R522	1-216-077-11	RES-CHIP 15K 5% 1/10W	
R523	1-216-093-11	RES-CHIP 68K 5% 1/10W	
R524	1-249-393-11	CARBON 10 5% 1/4W	
R525	1-249-393-11	CARBON 10 5% 1/4W	
R526	1-208-401-11	RES-CHIP 33 2% 1/8W	(DA4ES/DA7ES)
R526	1-259-977-11	CARBON MELF 33 2% 1/8W	(VA333ES)
R527	1-240-855-11	CARBON 6.2K 5% 1/4W	
R528	1-216-214-00	RES-CHIP 4.7K 2% 1/8W	(DA4ES/DA7ES)
R528	1-260-004-11	CARBON MELF 4.7K 2% 1/8W	(VA333ES)
R529	1-216-089-11	RES-CHIP 47K 5% 1/10W	
R530	1-249-393-11	CARBON 10 5% 1/4W	
R539	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
R540	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R541	1-216-689-11	METAL CHIP 39K 0.5% 1/10W	
R542	1-216-073-00	RES-CHIP 10K 5% 1/10W	

AMP

Ref. No.	Part No.	Description			Remark
R543	1-216-230-00	RES-CHIP	22K	2%	1/8W (DA4ES/DA7ES)
R543	1-260-012-11	CARBON MELF	22K	2%	1/8W (VA333ES)
R551	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R551	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R552	1-208-571-11	RES-CHIP	68K	2%	1/8W (DA4ES/DA7ES)
R552	1-260-018-11	CARBON MELF	68K	2%	1/8W (VA333ES)
R553	1-249-494-11	CARBON	68K	5%	1/2W
R554	1-249-683-31	CARBON	2.7K	5%	1/2W
R559	1-216-025-11	RES-CHIP	100	5%	1/10W
R560	1-215-868-00	METAL OXIDE	680	5%	1W
R571	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R572	1-216-077-11	RES-CHIP	15K	5%	1/10W
R573	1-216-093-11	RES-CHIP	68K	5%	1/10W
R574	1-249-393-11	CARBON	10	5%	1/4W
R575	1-249-393-11	CARBON	10	5%	1/4W
R576	1-208-401-11	RES-CHIP	33	2%	1/8W (DA4ES/DA7ES)
R576	1-259-977-11	CARBON MELF	33	2%	1/8W (VA333ES)
R577	1-240-855-11	CARBON	6.2K	5%	1/4W
R578	1-216-214-00	RES-CHIP	4.7K	2%	1/8W (DA4ES/DA7ES)
R578	1-260-004-11	CARBON MELF	4.7K	2%	1/8W (VA333ES)
R579	1-216-089-11	RES-CHIP	47K	5%	1/10W
R580	1-249-393-11	CARBON	10	5%	1/4W
R587	1-249-393-11	CARBON	10	5%	1/4W
R588	1-216-073-00	RES-CHIP	10K	5%	1/10W
R591	1-249-393-11	CARBON	10	5%	1/4W
R592	1-249-393-11	CARBON	10	5%	1/4W
R594	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R595	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R596	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R597	1-216-041-00	METAL CHIP	470	5%	1/10W
R598	1-216-041-00	METAL CHIP	470	5%	1/10W
R621	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R622	1-216-077-11	RES-CHIP	15K	5%	1/10W
R623	1-216-093-11	RES-CHIP	68K	5%	1/10W
R624	1-249-393-11	CARBON	10	5%	1/4W
R625	1-249-393-11	CARBON	10	5%	1/4W
R626	1-208-401-11	RES-CHIP	33	2%	1/8W (DA4ES/DA7ES)
R626	1-259-977-11	CARBON MELF	33	2%	1/8W (VA333ES)
R627	1-240-855-11	CARBON	6.2K	5%	1/4W
R628	1-216-214-00	RES-CHIP	4.7K	2%	1/8W (DA4ES/DA7ES)
R628	1-260-004-11	CARBON MELF	4.7K	2%	1/8W (VA333ES)
R629	1-216-089-11	RES-CHIP	47K	5%	1/10W
R630	1-249-393-11	CARBON	10	5%	1/4W
R660	1-216-230-00	RES-CHIP	22K	2%	1/8W (DA4ES/DA7ES)
R660	1-260-012-11	CARBON MELF	22K	2%	1/8W (VA333ES)
R661	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R661	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R662	1-208-571-11	RES-CHIP	68K	2%	1/8W (DA4ES/DA7ES)
R662	1-260-018-11	CARBON MELF	68K	2%	1/8W (VA333ES)
R663	1-249-494-11	CARBON	68K	5%	1/2W
R664	1-249-683-31	CARBON	2.7K	5%	1/2W
R665	1-216-025-11	RES-CHIP	100	5%	1/10W
R671	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R672	1-216-077-11	RES-CHIP	15K	5%	1/10W
R673	1-216-093-11	RES-CHIP	68K	5%	1/10W
R674	1-249-393-11	CARBON	10	5%	1/4W
R675	1-249-393-11	CARBON	10	5%	1/4W
R676	1-208-401-11	RES-CHIP	33	2%	1/8W (DA4ES/DA7ES)
R676	1-259-977-11	CARBON MELF	33	2%	1/8W (VA333ES)
R677	1-240-855-11	CARBON	6.2K	5%	1/4W
R678	1-216-214-00	RES-CHIP	4.7K	2%	1/8W (DA4ES/DA7ES)
R678	1-260-004-11	CARBON MELF	4.7K	2%	1/8W (VA333ES)
R679	1-216-089-11	RES-CHIP	47K	5%	1/10W
R680	1-249-393-11	CARBON	10	5%	1/4W
R688	1-249-393-11	CARBON	10	5%	1/4W
R689	1-249-393-11	CARBON	10	5%	1/4W
R690	1-208-401-11	RES-CHIP	33	2%	1/8W (DA4ES/DA7ES)
R690	1-259-977-11	CARBON MELF	33	2%	1/8W (VA333ES)
R691	1-240-855-11	CARBON	6.2K	5%	1/4W
R692	1-216-214-00	RES-CHIP	4.7K	2%	1/8W (DA4ES/DA7ES)
R692	1-260-004-11	CARBON MELF	4.7K	2%	1/8W (VA333ES)
R693	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R694	1-216-093-11	RES-CHIP	68K	5%	1/10W
R695	1-216-077-11	RES-CHIP	15K	5%	1/10W
R696	1-249-393-11	CARBON	10	5%	1/4W
R697	1-216-089-11	RES-CHIP	47K	5%	1/10W
R721	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R722	1-216-077-11	RES-CHIP	15K	5%	1/10W
R723	1-216-093-11	RES-CHIP	68K	5%	1/10W
R724	1-249-393-11	CARBON	10	5%	1/4W
R725	1-249-393-11	CARBON	10	5%	1/4W
R726	1-208-401-11	RES-CHIP	33	2%	1/8W (DA4ES/DA7ES)
R726	1-259-977-11	CARBON MELF	33	2%	1/8W (VA333ES)
R727	1-240-855-11	CARBON	6.2K	5%	1/4W
R728	1-216-214-00	RES-CHIP	4.7K	2%	1/8W (DA4ES/DA7ES)
R728	1-260-004-11	CARBON MELF	4.7K	2%	1/8W (VA333ES)
R729	1-216-089-11	RES-CHIP	47K	5%	1/10W
R730	1-249-393-11	CARBON	10	5%	1/4W
R771	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R772	1-216-077-11	RES-CHIP	15K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R773	1-216-093-11	RES-CHIP	68K	5%	1/10W
R774	1-249-393-11	CARBON	10	5%	1/4W
R775	1-249-393-11	CARBON	10	5%	1/4W
R776	1-208-401-11	RES-CHIP	33	2%	1/8W (DA4ES/DA7ES)
R776	1-259-977-11	CARBON MELF	33	2%	1/8W (VA333ES)
R777	1-240-855-11	CARBON	6.2K	5%	1/4W
R778	1-216-214-00	RES-CHIP	4.7K	2%	1/8W (DA4ES/DA7ES)
R778	1-260-004-11	CARBON MELF	4.7K	2%	1/8W (VA333ES)
R779	1-216-089-11	RES-CHIP	47K	5%	1/10W
R780	1-249-393-11	CARBON	10	5%	1/4W
		< VARIABLE RESISTOR >			
RV501	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV551	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV601	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV651	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV652	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV701	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV751	1-238-598-11	RES, ADJ, CARBON 2.2K			
		< RELAY >			
RY504	1-515-793-11	RELAY			
		< CONNECTOR >			
* TP501	1-560-060-00	PIN, CONNECTOR 2P			
* TP551	1-560-060-00	PIN, CONNECTOR 2P			
* TP601	1-560-060-00	PIN, CONNECTOR 2P			
* TP651	1-560-060-00	PIN, CONNECTOR 2P			
* TP652	1-564-505-11	PLUG, CONNECTOR 2P			
* TP701	1-560-060-00	PIN, CONNECTOR 2P			
* TP751	1-560-060-00	PIN, CONNECTOR 2P			
**********					
	A-4728-909-A	C-VIDEO BOARD, COMPLETE (AEP)			
	A-4728-951-A	C-VIDEO BOARD, COMPLETE (DA4ES/DA7ES)			
	A-4729-682-A	C-VIDEO BOARD, COMPLETE (TW,KR)			
		**********			
		< CAPACITOR >			
C201	1-119-824-11	ELECT	10uF	20%	50V
C202	1-119-824-11	ELECT	10uF	20%	50V
C203	1-119-824-11	ELECT	10uF	20%	50V
C204	1-119-824-11	ELECT	10uF	20%	50V
C206	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C207	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C208	1-119-824-11	ELECT	10uF	20%	50V
C209	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C210	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C211	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C212	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C213	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C214	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C238	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C240	1-163-038-00	CERAMIC CHIP	0.1uF		25V (DA4ES/DA7ES)

Ref. No.	Part No.	Description			Remark
C253	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C255	1-128-834-11	ELECT	470uF	20%	10V
C278	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C280	1-119-824-11	ELECT	10uF	20%	50V (DA4ES/DA7ES)
C281	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V (DA4ES/DA7ES)
C282	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V (DA4ES/DA7ES)
C283	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C284	1-119-824-11	ELECT	10uF	20%	50V (DA4ES/DA7ES)
C285	1-119-824-11	ELECT	10uF	20%	50V (DA4ES/DA7ES)
C286	1-119-824-11	ELECT	10uF	20%	50V (DA4ES/DA7ES)
C287	1-119-824-11	ELECT	10uF	20%	50V (DA4ES/DA7ES)
C288	1-163-243-11	CERAMIC CHIP	47PF	5%	50V (DA4ES/DA7ES)
C289	1-163-243-11	CERAMIC CHIP	47PF	5%	50V (DA4ES/DA7ES)
C290	1-128-834-11	ELECT	470uF	20%	10V
C291	1-119-824-11	ELECT	10uF	20%	50V
C292	1-119-824-11	ELECT	10uF	20%	50V
C293	1-119-824-11	ELECT	10uF	20%	50V
C294	1-119-824-11	ELECT	10uF	20%	50V
C295	1-119-824-11	ELECT	10uF	20%	50V
C296	1-119-824-11	ELECT	10uF	20%	50V
C297	1-164-690-11	CERAMIC CHIP	0.0022uF	5%	50V
C298	1-128-834-11	ELECT	470uF	20%	10V
C299	1-128-834-11	ELECT	470uF	20%	10V
C2003	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C2005	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C2009	1-164-690-11	CERAMIC CHIP	0.0022uF	5%	50V
C2014	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C2015	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C2019	1-128-830-11	ELECT	47uF	20%	10V (DA4ES/DA7ES)
C2020	1-128-830-11	ELECT	47uF	20%	10V (DA4ES/DA7ES)
C2021	1-128-830-11	ELECT	47uF	20%	10V
C2022	1-128-830-11	ELECT	47uF	20%	10V
		< CONNECTOR >			
CNS200	1-784-774-11	CONNECTOR, FFC 13P			
CNS205	1-784-774-11	CONNECTOR, FFC 13P			
		< DIODE >			
D202	8-719-801-78	DIODE 1SS184 (DA4ES/DA7ES)			
		< FERRITE BEAD >			
FB201	1-216-296-11	SHORT CHIP	0		
		< IC >			
IC201	8-759-536-24	IC NJM2296M-TE2			

C-VIDEO CIS

Ref. No.	Part No.	Description	Remark
IC211	8-759-536-24	IC NJM2296M-TE2 (DA4ES/DA7ES)	
IC212	6-701-891-01	IC NJM2581D	
IC214	8-759-671-94	IC MC74HC4053AFEL	
		< JACK >	
J200	1-794-435-11	JACK, PIN 2P (MONITOR,TV/SAT)	
J201	1-770-337-21	JACK, PIN 3P (DVD/LD,VIDEO 2)	
J202	1-770-337-21	JACK, PIN 3P (VIDEO 1,2ND ROOM)	(DA4ES/DA7ES)
J202	1-794-435-11	JACK, PIN 2P (VIDEO 1) (VA333ES)	
J212	1-794-313-11	JACK, PIN (BLOCK) 9P (COMPONENT VIDEO)	
		< JUMPER RESISTOR >	
JR260	1-216-296-11	SHORT CHIP 0	
JR261	1-216-296-11	SHORT CHIP 0	
JR263	1-216-296-11	SHORT CHIP 0	
JW284	1-216-296-11	SHORT CHIP 0	(DA4ES/DA7ES)
		< COIL >	
L206	1-410-482-31	INDUCTOR 100uH	(DA4ES/DA7ES)
L207	1-410-482-31	INDUCTOR 100uH	(DA4ES/DA7ES)
L208	1-410-482-31	INDUCTOR 100uH	
L209	1-410-482-31	INDUCTOR 100uH	
		< TRANSISTOR >	
Q207	8-729-027-43	TRANSISTOR DTC114EKA-T146	
		< RESISTOR >	
R201	1-216-022-00	METAL CHIP 75 5% 1/10W	
R202	1-216-022-00	METAL CHIP 75 5% 1/10W	
R203	1-216-022-00	METAL CHIP 75 5% 1/10W	
R204	1-216-022-00	METAL CHIP 75 5% 1/10W	
R205	1-216-022-00	METAL CHIP 75 5% 1/10W	
R206	1-216-022-00	METAL CHIP 75 5% 1/10W	
R207	1-216-022-00	METAL CHIP 75 5% 1/10W	
R234	1-216-073-00	RES-CHIP 10K 5% 1/10W	
R240	1-216-097-11	RES-CHIP 100K 5% 1/10W	(DA4ES/DA7ES)
R253	1-216-022-00	METAL CHIP 75 5% 1/10W	(DA4ES/DA7ES)
R256	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R257	1-216-022-00	METAL CHIP 75 5% 1/10W	
R258	1-216-022-00	METAL CHIP 75 5% 1/10W	
R259	1-216-022-00	METAL CHIP 75 5% 1/10W	
R260	1-216-022-00	METAL CHIP 75 5% 1/10W	
R261	1-216-022-00	METAL CHIP 75 5% 1/10W	
R262	1-216-022-00	METAL CHIP 75 5% 1/10W	
R263	1-216-022-00	METAL CHIP 75 5% 1/10W	
R264	1-216-022-00	METAL CHIP 75 5% 1/10W	
R265	1-216-022-00	METAL CHIP 75 5% 1/10W	
R266	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R267	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R268	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R271	1-216-022-00	METAL CHIP 75 5% 1/10W	(DA4ES/DA7ES)
R275	1-216-022-00	METAL CHIP 75 5% 1/10W	(DA4ES/DA7ES)
R280	1-216-022-00	METAL CHIP 75 5% 1/10W	
R291	1-216-295-11	SHORT CHIP 0	
R292	1-216-295-11	SHORT CHIP 0	
R293	1-216-295-11	SHORT CHIP 0	
**********			
	A-4728-882-A	CIS BOARD, COMPLETE (DA4ES)	
	A-4728-921-A	CIS BOARD, COMPLETE (DA7ES)	
		**********	
		< CAPACITOR >	
C51	1-126-960-11	ELECT 1uF 20% 50V	(DA4ES/DA7ES)
C52	1-126-960-11	ELECT 1uF 20% 50V	(DA4ES/DA7ES)
C53	1-126-960-11	ELECT 1uF 20% 50V	(DA7ES)
C61	1-126-947-11	ELECT 47uF 20% 16V	(DA4ES/DA7ES)
C62	1-165-319-11	CERAMIC CHIP 0.1uF 50V	(DA4ES/DA7ES)
C63	1-126-961-11	ELECT 2.2uF 20% 50V	(DA4ES/DA7ES)
C65	1-126-767-11	ELECT 1000uF 20% 16V	(DA4ES/DA7ES)
C66	1-126-767-11	ELECT 1000uF 20% 16V	(DA4ES/DA7ES)
C67	1-126-767-11	ELECT 1000uF 20% 16V	(DA7ES)
		< CONNECTOR >	
CNP52	1-784-923-11	PIN, CONNECTOR 7P (DA4ES/DA7ES)	
		< DIODE >	
D60	8-719-988-61	DIODE 1SS355TE-17	
D61	8-719-075-86	LED SID307BR-TP19	
D63	1-216-296-11	SHORT CHIP 0	
D64	1-216-296-11	SHORT CHIP 0	
D65	8-719-988-61	DIODE 1SS355TE-17	
		< IC >	
IC61	8-759-459-85	IC NJL63H400A (DA4ES/DA7ES)	
IC63	8-759-564-49	IC TC7W53FU(TE12R) (DA4ES/DA7ES)	
		< JACK >	
J51	1-563-330-11	JACK (TRIGGER MAIN ROOM) (DA4ES/DA7ES)	
J52	1-563-330-11	JACK (TRIGGER 2ND ROOM) (DA4ES/DA7ES)	
J53	1-563-330-11	JACK (TRIGGER 3RD ROOM) (DA7ES)	
J54	1-563-330-11	JACK (IR IN) (DA4ES/DA7ES)	
J55	1-563-330-11	JACK (IR OUT 1) (DA4ES/DA7ES)	
J56	1-563-330-11	JACK (IR OUT 2) (DA4ES/DA7ES)	
		< TRANSISTOR >	
Q51	8-729-140-97	TRANSISTOR 2SB734-34 (DA4ES/DA7ES)	
Q52	8-729-027-43	TRANSISTOR DTC114EKA-T146	(DA4ES/DA7ES)
Q53	8-729-140-97	TRANSISTOR 2SB734-34 (DA4ES/DA7ES)	
Q54	8-729-027-43	TRANSISTOR DTC114EKA-T146	(DA4ES/DA7ES)
Q55	8-729-140-97	TRANSISTOR 2SB734-34 (DA7ES)	
Q56	8-729-027-43	TRANSISTOR DTC114EKA-T146 (DA7ES)	

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R51	1-801-726-11	THERMISTOR, POSITIVE (DA4ES/DA7ES)			
R52	1-216-073-00	RES-CHIP	10K	5% 1/10W	(DA4ES/DA7ES)
R53	1-216-057-00	METAL CHIP	2.2K	5% 1/10W	(DA4ES/DA7ES)
R54	1-801-726-11	THERMISTOR, POSITIVE (DA4ES/DA7ES)			
R55	1-216-073-00	RES-CHIP	10K	5% 1/10W	(DA4ES/DA7ES)
R56	1-216-057-00	METAL CHIP	2.2K	5% 1/10W	(DA4ES/DA7ES)
R57	1-801-726-11	THERMISTOR, POSITIVE (DA7ES)			
R58	1-216-073-00	RES-CHIP	10K	5% 1/10W	(DA7ES)
R59	1-216-057-00	METAL CHIP	2.2K	5% 1/10W	(DA7ES)
R60	1-216-025-11	RES-CHIP	100	5% 1/10W	(DA4ES/DA7ES)
R61	1-216-073-00	RES-CHIP	10K	5% 1/10W	(DA4ES/DA7ES)
R62	1-216-097-11	RES-CHIP	100K	5% 1/10W	(DA4ES/DA7ES)
R63	1-216-025-11	RES-CHIP	100	5% 1/10W	(DA4ES/DA7ES)
R64	1-216-025-11	RES-CHIP	100	5% 1/10W	(DA4ES/DA7ES)
R65	1-216-025-11	RES-CHIP	100	5% 1/10W	(DA4ES/DA7ES)
R66	1-216-073-00	RES-CHIP	10K	5% 1/10W	(DA4ES/DA7ES)
R67	1-216-025-11	RES-CHIP	100	5% 1/10W	(DA4ES/DA7ES)
R68	1-216-001-00	METAL CHIP	10	5% 1/10W	(DA4ES/DA7ES)
R69	1-216-073-00	RES-CHIP	10K	5% 1/10W	(DA4ES/DA7ES)
R70	1-216-073-00	RES-CHIP	10K	5% 1/10W	(DA4ES/DA7ES)
R71	1-216-073-00	RES-CHIP	10K	5% 1/10W	(DA7ES)
R72	1-216-097-11	RES-CHIP	100K	5% 1/10W	(DA4ES/DA7ES)
**********					
	A-4729-692-A	CIS POWER BOARD, COMPLETE (DA4ES/DA7ES)			
		**********			
		< CAPACITOR >			
C825	1-126-943-11	ELECT	2200uF	20% 25V	(DA4ES/DA7ES)
C826	1-126-942-61	ELECT	1000uF	20% 25V	(DA4ES/DA7ES)
C827	1-126-768-11	ELECT	2200uF	20% 16V	(DA4ES/DA7ES)
C828	1-126-943-11	ELECT	2200uF	20% 25V	(DA4ES/DA7ES)
C829	1-126-942-61	ELECT	1000uF	20% 25V	(DA4ES/DA7ES)
C830	1-126-768-11	ELECT	2200uF	20% 16V	(DA4ES/DA7ES)
C831	1-126-943-11	ELECT	2200uF	20% 25V	(DA7ES)
C832	1-126-942-61	ELECT	1000uF	20% 25V	(DA7ES)
C833	1-126-768-11	ELECT	2200uF	20% 16V	(DA7ES)
		< CONNECTOR >			
* CN810	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			(DA4ES/DA7ES)
CNP809	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			(DA4ES/DA7ES)
		< DIODE >			
D821	8-719-080-70	DIODE 11EQS04N-TB5 (DA4ES/DA7ES)			
D822	8-719-080-70	DIODE 11EQS04N-TB5 (DA4ES/DA7ES)			
D823	8-719-080-70	DIODE 11EQS04N-TB5 (DA4ES/DA7ES)			
D824	8-719-080-70	DIODE 11EQS04N-TB5 (DA4ES/DA7ES)			
D825	8-719-080-70	DIODE 11EQS04N-TB5 (DA7ES)			
D826	8-719-080-70	DIODE 11EQS04N-TB5 (DA7ES)			
		< IC >			
IC801	8-759-231-58	IC TA7812S (DA4ES/DA7ES)			
IC802	8-759-231-58	IC TA7812S (DA4ES/DA7ES)			
IC803	8-759-231-58	IC TA7812S (DA7ES)			
**********					
	A-4728-895-A	CLOCK BOARD, COMPLETE (AEP)			
		**********			
		< CAPACITOR >			
C256	1-163-235-11	CERAMIC CHIP	22PF	5% 50V	(AEP)
C257	1-163-091-00	CERAMIC CHIP	8PF	50V	(AEP)
C258	1-163-091-00	CERAMIC CHIP	8PF	50V	(AEP)
C259	1-163-235-11	CERAMIC CHIP	22PF	5% 50V	(AEP)
C260	1-165-319-11	CERAMIC CHIP	0.1uF	50V	(AEP)
C261	1-128-840-11	ELECT	47uF	20% 16V	(AEP)
C2010	1-165-319-11	CERAMIC CHIP	0.1uF	50V	(AEP)
		< CONNECTOR >			
CNS202	1-770-593-41	CONNECTOR, BOARD TO BOARD 5P (AEP)			
		< TRIMMER >			
CT201	1-141-442-91	CAP, CERAMIC TRIMMER 20PF (AEP)			
CT202	1-141-442-91	CAP, CERAMIC TRIMMER 20PF (AEP)			
		< FERRITE BEAD >			
FB203	1-414-813-11	FERRITE, EMI (SMD) (AEP)			
		< IC >			
IC207	8-759-242-70	IC TC7WU04F (AEP)			
IC208	8-759-032-01	IC MC74HC00AF (AEP)			

CLOCK | DC | DIGITAL

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R242	1-216-025-11	RES-CHIP	100	5%	1/10W (AEP)
R243	1-216-035-00	METAL CHIP	270	5%	1/10W (AEP)
R244	1-216-035-00	METAL CHIP	270	5%	1/10W (AEP)
R269	1-216-025-11	RES-CHIP	100	5%	1/10W (AEP)
R270	1-216-025-11	RES-CHIP	100	5%	1/10W (AEP)
R276	1-216-121-11	RES-CHIP	1M	5%	1/10W (AEP)
R277	1-216-121-11	RES-CHIP	1M	5%	1/10W (AEP)
		< VIBRATOR >			
X200	1-781-820-21	VIBRATOR, CRYSTAL (17.734MHz) (AEP)			
X201	1-781-821-21	VIBRATOR, CRYSTAL (14.31MHz) (AEP)			
**********					
	A-4728-899-A	DC BOARD, COMPLETE (VA333ES)			
	A-4728-927-A	DC BOARD, COMPLETE (DA4ES/DA7ES)			
		**********			
	1-533-399-31	HOLDER, FUSE			
		< CAPACITOR >			
⚠C801	1-106-375-12	MYLAR	0.022uF		200V (DA4ES/DA7ES)
⚠C801	1-115-684-21	MYLAR	0.0047uF	5%	100V (VA333ES)
⚠C802	1-106-375-12	MYLAR	0.022uF		200V (DA4ES/DA7ES)
⚠C802	1-115-684-21	MYLAR	0.0047uF	5%	100V (VA333ES)
⚠C803	1-137-666-12	ELECT	15000uF	20%	71V
⚠C804	1-137-666-12	ELECT	15000uF	20%	71V
C805	1-128-860-11	ELECT	47uF	20%	50V
C808	1-127-732-51	ELECT	2200uF	20%	35V
C809	1-127-732-51	ELECT	2200uF	20%	35V
C812	1-128-860-11	ELECT	47uF	20%	50V
⚠C815	1-128-873-11	ELECT	220uF	20%	63V
C816	1-128-860-11	ELECT	47uF	20%	50V
⚠C822	1-106-377-00	MYLAR	0.027uF	200V	
C823	1-126-939-11	ELECT	10000uF	20%	16V
C824	1-127-727-11	ELECT	1000uF	20%	16V
		< CONNECTOR >			
* CN801	1-564-104-00	PIN, CONNECTOR (3.96mm PITCH) 3P			
CNP801	1-784-926-11	PIN, CONNECTOR 11P			
CNP802	1-691-768-11	PLUG (MICRO CONNECTOR) 6P			
CNP803	1-785-102-21	PIN, CONNECTOR (3.96mm PITCH) 4P			
CNP804	1-691-769-11	PLUG (MICRO CONNECTOR) 7P			
		< DIODE >			
D801	6-500-347-01	DIODE S15VB20			
D803	8-719-083-89	DIODE 11ES2N-TB5			
D804	8-719-083-89	DIODE 11ES2N-TB5			
D805	8-719-083-89	DIODE 11ES2N-TB5			
D806	8-719-083-89	DIODE 11ES2N-TB5			
D807	8-719-510-53	DIODE D4SB60L			
D811	8-719-057-00	DIODE UDZ-TE-17-36B			
D812	8-719-083-89	DIODE 11ES2N-TB5			
D813	8-719-083-89	DIODE 11ES2N-TB5			
D814	8-719-056-77	DIODE UDZ-TE-17-3.9B (VA333ES)			
D816	8-719-070-30	DIODE PTZ-TE25-5.6A			
		< JUMPER RESISTOR >			
JR801	1-216-295-11	SHORT CHIP	0		(DA4ES/DA7ES)
		< TRANSISTOR >			
Q801	8-729-140-96	TRANSISTOR 2SD774-34			
		< RESISTOR >			
R801	1-216-061-11	RES-CHIP	3.3K	5%	1/10W
R802	1-249-401-11	CARBON	47	5%	1/4W
R803	1-216-081-00	METAL CHIP	22K	5%	1/10W
⚠R804	1-216-349-00	METAL OXIDE	1	5%	1W F
⚠R805	1-216-349-00	METAL OXIDE	1	5%	1W F
⚠R806	1-216-349-00	METAL OXIDE	1	5%	1W F
⚠R807	1-216-349-00	METAL OXIDE	1	5%	1W F
R808	1-249-416-11	CARBON	820	5%	1/4W
**********					
	A-4728-884-A	DIGITAL BOARD, COMPLETE (DA4ES)			
	A-4728-897-A	DIGITAL BOARD, COMPLETE (AEP)			
	A-4728-923-A	DIGITAL BOARD, COMPLETE (DA7ES)			
	A-4728-962-A	DIGITAL BOARD, COMPLETE (TW,KR)			
		**********			
*	3-309-144-21	HEAT SINK			
	4-242-610-11	HEAT SINK (10) (DA4ES/DA7ES)			
	4-974-510-11	SCREW (+BV 3X8 CU)			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3 (DA4ES)			
		< CAPACITOR >			
C1101	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C1102	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1103	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1104	1-119-834-11	ELECT	22uF	20%	63V (AEP)
C1104	1-128-858-11	ELECT	22uF	20%	25V (EXCEPT AEP)
C1105	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1106	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1107	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1108	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1109	1-119-799-11	ELECT	47uF	20%	16V (AEP)
C1109	1-128-840-11	ELECT	47uF	20%	16V (EXCEPT AEP)
C1110	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1111	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1112	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1113	1-119-791-31	ELECT	330uF	20%	16V (AEP)
C1113	1-128-846-11	ELECT	330uF	20%	16V (EXCEPT AEP)
C1114	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1115	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C1116	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V
C1117	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
C1118	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1119	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1120	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C1121	1-119-822-11	ELECT	3.3uF	20%	50V
C1122	1-119-779-11	ELECT	220uF	20%	10V (AEP)
C1122	1-128-832-11	ELECT	220uF	20%	10V (EXCEPT AEP)
C1201	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1202	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1203	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1204	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1205	1-119-801-21	ELECT	220uF	20%	16V (AEP)
C1205	1-127-719-11	ELECT	220uF	20%	16V (EXCEPT AEP)
C1206	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1207	1-119-801-21	ELECT	220uF	20%	16V (AEP)
C1207	1-127-719-11	ELECT	220uF	20%	16V (EXCEPT AEP)
C1208	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1209	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1210	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1211	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1212	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1213	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1214	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1215	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1216	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1217	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1218	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1219	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1221	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1401	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1402	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1403	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1404	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1405	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1406	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1407	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1408	1-119-801-21	ELECT	220uF	20%	16V (AEP)
C1408	1-127-719-11	ELECT	220uF	20%	16V (EXCEPT AEP)
C1409	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1410	1-119-801-21	ELECT	220uF	20%	16V (AEP)
C1410	1-127-719-11	ELECT	220uF	20%	16V (EXCEPT AEP)
C1411	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1412	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1413	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1414	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1415	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1416	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1417	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1419	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1501	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1502	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1503	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1504	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1505	1-119-801-21	ELECT	220uF	20%	16V (AEP)
C1505	1-127-719-11	ELECT	220uF	20%	16V (EXCEPT AEP)
C1506	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1507	1-119-801-21	ELECT	220uF	20%	16V (AEP)
C1507	1-127-719-11	ELECT	220uF	20%	16V (EXCEPT AEP)
C1508	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1509	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1510	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1511	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1512	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1513	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1514	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1515	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1516	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1517	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1518	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1601	1-119-824-11	ELECT	10uF	20%	50V (EXCEPT AEP)
C1601	1-119-824-31	ELECT	10uF	20%	50V (AEP)
C1602	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1603	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1604	1-119-801-21	ELECT	220uF	20%	16V (AEP)
C1604	1-127-719-11	ELECT	220uF	20%	16V (EXCEPT AEP)
C1605	1-119-824-11	ELECT	10uF	20%	50V (EXCEPT AEP)
C1605	1-119-824-31	ELECT	10uF	20%	50V (AEP)
C1606	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1607	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1608	1-119-791-31	ELECT	330uF	20%	16V (AEP)
C1608	1-128-846-11	ELECT	330uF	20%	16V (EXCEPT AEP)
C1609	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C1610	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1611	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1612	1-119-824-11	ELECT	10uF	20%	50V (EXCEPT AEP)
C1612	1-119-824-31	ELECT	10uF	20%	50V (AEP)
C1613	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1614	1-119-801-21	ELECT	220uF	20%	16V (AEP)
C1614	1-127-719-11	ELECT	220uF	20%	16V (EXCEPT AEP)
C1615	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1616	1-119-791-31	ELECT	330uF	20%	16V (AEP)
C1616	1-128-846-11	ELECT	330uF	20%	16V (EXCEPT AEP)
C1617	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1627	1-137-434-11	MYLAR	0.0018uF	5%	50V
C1628	1-137-434-11	MYLAR	0.0018uF	5%	50V
C1629	1-137-434-11	MYLAR	0.0018uF	5%	50V

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Ref. No.	Part No.	Description			Remark
C1630	1-137-434-11	MYLAR	0.0018uF	5%	50V
C1631	1-137-434-11	MYLAR	0.0018uF	5%	50V
C1632	1-137-434-11	MYLAR	0.0018uF	5%	50V
C1633	1-137-434-11	MYLAR	0.0018uF	5%	50V
C1634	1-137-434-11	MYLAR	0.0018uF	5%	50V
C1635	1-137-428-11	MYLAR	180PF	5%	50V
C1636	1-137-428-11	MYLAR	180PF	5%	50V
C1637	1-137-428-11	MYLAR	180PF	5%	50V
C1638	1-137-428-11	MYLAR	180PF	5%	50V
C1639	1-137-428-11	MYLAR	180PF	5%	50V
C1640	1-137-428-11	MYLAR	180PF	5%	50V
C1641	1-137-428-11	MYLAR	180PF	5%	50V
C1642	1-137-428-11	MYLAR	180PF	5%	50V
C1643	1-119-835-31	ELECT	33uF	20%	63V (AEP)
C1643	1-128-839-11	ELECT	33uF	20%	16V (EXCEPT AEP)
C1644	1-119-835-31	ELECT	33uF	20%	63V (AEP)
C1644	1-128-839-11	ELECT	33uF	20%	16V (EXCEPT AEP)
C1645	1-119-835-31	ELECT	33uF	20%	63V (AEP)
C1645	1-128-839-11	ELECT	33uF	20%	16V (EXCEPT AEP)
C1646	1-119-835-31	ELECT	33uF	20%	63V (AEP)
C1646	1-128-839-11	ELECT	33uF	20%	16V (EXCEPT AEP)
C1647	1-119-835-31	ELECT	33uF	20%	63V (AEP)
C1647	1-128-839-11	ELECT	33uF	20%	16V (EXCEPT AEP)
C1648	1-119-835-31	ELECT	33uF	20%	63V (AEP)
C1648	1-128-839-11	ELECT	33uF	20%	16V (EXCEPT AEP)
C1649	1-119-835-31	ELECT	33uF	20%	63V (AEP)
C1649	1-128-839-11	ELECT	33uF	20%	16V (EXCEPT AEP)
C1650	1-119-835-31	ELECT	33uF	20%	63V (AEP)
C1650	1-128-839-11	ELECT	33uF	20%	16V (EXCEPT AEP)
C1651	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1701	1-119-801-21	ELECT	220uF	20%	16V (AEP)
C1701	1-127-719-11	ELECT	220uF	20%	16V (EXCEPT AEP)
C1702	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1703	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1704	1-119-824-11	ELECT	10uF	20%	50V (EXCEPT AEP)
C1704	1-119-824-31	ELECT	10uF	20%	50V (AEP)
C1705	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1706	1-119-800-11	ELECT	100uF	20%	16V (AEP)
C1706	1-127-718-11	ELECT	100uF	20%	16V (EXCEPT AEP)
C1707	1-137-365-11	MYLAR	0.0015uF	5%	50V
C1708	1-137-365-11	MYLAR	0.0015uF	5%	50V
C1709	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1710	1-119-824-11	ELECT	10uF	20%	50V (EXCEPT AEP)
C1710	1-119-824-31	ELECT	10uF	20%	50V (AEP)
C1711	1-119-835-31	ELECT	33uF	20%	63V (AEP)
C1711	1-128-839-11	ELECT	33uF	20%	16V (EXCEPT AEP)
C1712	1-119-835-31	ELECT	33uF	20%	63V (AEP)
C1712	1-128-839-11	ELECT	33uF	20%	16V (EXCEPT AEP)
C1713	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1714	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1801	1-119-800-11	ELECT	100uF	20%	16V (AEP)
C1801	1-127-718-11	ELECT	100uF	20%	16V (EXCEPT AEP)
C1803	1-119-800-11	ELECT	100uF	20%	16V (AEP)
C1803	1-127-718-11	ELECT	100uF	20%	16V (EXCEPT AEP)
C1805	1-119-800-11	ELECT	100uF	20%	16V (AEP)
C1805	1-127-718-11	ELECT	100uF	20%	16V (EXCEPT AEP)
C1807	1-119-800-11	ELECT	100uF	20%	16V (AEP)
C1807	1-127-718-11	ELECT	100uF	20%	16V (EXCEPT AEP)
C1809	1-126-930-11	ELECT	6800uF	20%	10V
C1811	1-137-662-11	ELECT	6800uF	20%	6.3V
C1813	1-119-800-11	ELECT	100uF	20%	16V (AEP)
C1813	1-127-718-11	ELECT	100uF	20%	16V (EXCEPT AEP)
C1815	1-125-890-11	ELECT	1000uF	20%	6.3V (AEP)
C1815	1-137-658-11	ELECT	1000uF	20%	6.3V (EXCEPT AEP)
C1817	1-119-800-11	ELECT	100uF	20%	16V (AEP)
C1817	1-127-718-11	ELECT	100uF	20%	16V (EXCEPT AEP)
C1819	1-128-556-11	ELECT	1000uF	20%	6.3V
C1821	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C1822	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C1825	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1901	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C1902	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1903	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1904	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1905	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1906	1-128-840-11	ELECT	47uF	20%	16V
C1907	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1908	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C2001	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2002	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2003	1-165-319-11	CERAMIC CHIP	0.1uF		50V

Ref. No.	Part No.	Description			Remark
C2004	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2005	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2006	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2007	1-128-840-11	ELECT	47uF	20%	16V
C2008	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2009	1-163-259-11	CERAMIC CHIP	220PF	5%	50V
C2010	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2012	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2013	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2014	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2015	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2016	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2017	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2018	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2019	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2101	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2102	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2103	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2109	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V (AEP)
C2110	1-119-824-11	ELECT	10uF	20%	50V (AEP)
C2111	1-165-319-11	CERAMIC CHIP	0.1uF		50V (AEP)
C2112	1-119-824-11	ELECT	10uF	20%	50V (AEP)
C2113	1-163-263-11	CERAMIC CHIP	330PF	5%	50V (AEP)
C2114	1-163-249-11	CERAMIC CHIP	82PF	5%	50V (AEP)
C2115	1-163-243-11	CERAMIC CHIP	47PF	5%	50V (AEP)
C2116	1-165-319-11	CERAMIC CHIP	0.1uF		50V (AEP)
C2117	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2118	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2119	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2120	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2121	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2122	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2123	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2124	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2125	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2126	1-119-820-11	ELECT	1uF	20%	50V
C2127	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2129	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2131	1-127-718-11	ELECT	100uF	20%	16V (EXCEPT AEP)

< CONNECTOR >

CN1601	1-784-927-11	PIN, CONNECTOR 12P
CN1602	1-784-921-11	PIN, CONNECTOR 4P
CN1701	1-779-799-11	PIN, CONNECTOR 9P
CN1801	1-784-923-11	PIN, CONNECTOR 7P
CN1802	1-564-320-00	PIN, CONNECTOR (3.96mm PITCH) 2P
CN1803	1-564-320-00	PIN, CONNECTOR (3.96mm PITCH) 2P
CN2101	1-784-776-11	CONNECTOR, FFC 15P
CN2102	1-784-774-11	CONNECTOR, FFC 13P
CN2103	1-784-774-11	CONNECTOR, FFC 13P
CN2104	1-784-774-11	CONNECTOR, FFC 13P
CN2105	1-784-776-11	CONNECTOR, FFC 15P
CN2106	1-784-776-11	CONNECTOR, FFC 15P
CN2107	1-568-838-11	CONNECTOR, FFC 21P

< DIODE >

D1101	8-719-988-61	DIODE 1SS355TE-17
D1102	8-719-988-61	DIODE 1SS355TE-17
D1803	8-719-053-18	DIODE 1SR154-400TE-25
D1804	8-719-053-18	DIODE 1SR154-400TE-25
D1805	8-719-053-18	DIODE 1SR154-400TE-25
D1806	8-719-053-18	DIODE 1SR154-400TE-25
D1812	8-719-988-61	DIODE 1SS355TE-17
D1901	8-719-801-78	DIODE 1SS184
D1902	8-719-988-61	DIODE 1SS355TE-17
D1903	8-719-988-61	DIODE 1SS355TE-17
D2001	8-719-988-61	DIODE 1SS355TE-17
D2002	8-719-801-78	DIODE 1SS184
D2003	8-719-988-61	DIODE 1SS355TE-17 (EXCEPT AEP)

< FERRITE BEAD >

FB1101	1-469-152-11	FERRITE, EMI (SMD)
FB1102	1-469-152-11	FERRITE, EMI (SMD)
FB1103	1-469-152-11	FERRITE, EMI (SMD)
FB1104	1-469-152-11	FERRITE, EMI (SMD)
FB1105	1-469-152-11	FERRITE, EMI (SMD)
FB1106	1-500-245-11	INDUCTOR, FERRITE BEAD
FB1107	1-414-231-22	INDUCTOR, FERRITE BEAD
FB1108	1-500-245-11	INDUCTOR, FERRITE BEAD
FB1109	1-500-245-11	INDUCTOR, FERRITE BEAD
FB1202	1-469-152-11	FERRITE, EMI (SMD)
FB1203	1-414-231-22	INDUCTOR, FERRITE BEAD
FB1402	1-469-152-11	FERRITE, EMI (SMD)
FB1502	1-469-152-11	FERRITE, EMI (SMD)
FB1503	1-500-245-11	INDUCTOR, FERRITE BEAD
FB1601	1-469-152-11	FERRITE, EMI (SMD)
FB1602	1-469-152-11	FERRITE, EMI (SMD)
FB1603	1-469-152-11	FERRITE, EMI (SMD)
FB1604	1-469-152-11	FERRITE, EMI (SMD)
FB1701	1-469-152-11	FERRITE, EMI (SMD)
FB1901	1-500-245-11	INDUCTOR, FERRITE BEAD
FB2001	1-469-152-11	FERRITE, EMI (SMD)
FB2101	1-469-152-11	FERRITE, EMI (SMD) (AEP)
FB2102	1-500-245-11	INDUCTOR, FERRITE BEAD
FB2103	1-500-245-11	INDUCTOR, FERRITE BEAD
FB2104	1-500-245-11	INDUCTOR, FERRITE BEAD
FB2105	1-500-245-11	INDUCTOR, FERRITE BEAD
FB2106	1-500-245-11	INDUCTOR, FERRITE BEAD
FB2107	1-500-245-11	INDUCTOR, FERRITE BEAD
FB2108	1-500-245-11	INDUCTOR, FERRITE BEAD
FB2109	1-500-245-11	INDUCTOR, FERRITE BEAD
FB2110	1-500-245-11	INDUCTOR, FERRITE BEAD

< IC >

IC1101	8-759-825-15	IC LC89056W-E
IC1102	8-759-447-77	IC TC7WH74FU(TE12R)
IC1103	8-759-242-70	IC TC7WU04F
IC1104	8-759-546-74	IC TC7WH157FU(TE12R)
IC1201	6-702-047-01	IC CXD9718Q

DIGITAL

Ref. No.	Part No.	Description	Remark
IC1202	6-700-983-01	IC IS61LV6416-15T(ICSI)	
IC1203	8-759-523-84	IC TC74VHC14FT(EL)	
IC1204	8-759-835-63	IC NJM2391DL1-26(TE1)	
IC1205	8-759-546-74	IC TC7WH157FU(TE12R)	
IC1401	6-700-705-01	IC CXD9616AR	
IC1402	6-700-296-01	IC W24L010AT-12-EL15	
IC1403	6-700-296-01	IC W24L010AT-12-EL15	
IC1404	8-759-523-84	IC TC74VHC14FT(EL)	
IC1405	8-759-835-63	IC NJM2391DL1-26(TE1)	
IC1501	6-700-705-01	IC CXD9616AR	
IC1502	6-700-983-01	IC IS61LV6416-15T(ICSI)	
IC1503	8-759-523-84	IC TC74VHC14FT(EL)	
IC1504	8-759-835-63	IC NJM2391DL1-26(TE1)	
IC1601	6-701-086-01	IC PCM1737E-1/2K	
IC1602	8-759-825-12	IC PCM1604Y/2K	
IC1603	8-759-711-85	IC NJM4580E-D	
IC1604	8-759-711-85	IC NJM4580E-D	
IC1605	8-759-711-85	IC NJM4580E-D	
IC1606	8-759-711-85	IC NJM4580E-D	
IC1607	8-759-277-63	IC TC7W14FU(TE12R)	
IC1701	8-759-462-08	IC AK5352-VF-E2	
IC1702	8-759-711-85	IC NJM4580E-D	
IC1703	8-759-711-85	IC NJM4580E-D	
IC1704	8-759-196-96	IC TC7SH08FU-TE85R	
IC1801	8-759-647-10	IC uPC2933HF	
IC1802	8-759-450-47	IC BA05T	
IC1803	8-759-039-69	IC uPC7805AHF	
IC1804	8-759-245-79	IC TA79005S	
IC1805	8-759-647-10	IC uPC2933HF	
IC1806	8-759-691-04	IC BA00AST	
IC1807	8-759-039-69	IC uPC7805AHF	
IC1808	8-759-647-10	IC uPC2933HF	
IC1809	8-759-088-08	IC uPC7812AHF	
IC1810	8-759-231-53	IC TA7805S	
IC1901	8-759-666-99	IC TMP87CH447U-1F23	
IC1902	8-759-598-06	IC S-80942ANMP-DD6-T2	
IC1903	8-759-058-62	IC TC7S08FU(TE85R)	
IC2001	6-801-827-01	IC MB91F155-2ES-X100	
IC2002	8-759-641-86	IC BR24C16F-E2	
IC2101	8-759-557-36	IC BU1924F-E2 (AEP)	
IC2102	8-759-238-47	IC TC74HCT7007AF(EL)	
IC2103	8-759-342-19	IC NJU3716M-T2	
IC2104	8-759-238-47	IC TC74HCT7007AF(EL)	
IC2105	8-759-238-47	IC TC74HCT7007AF(EL)	
IC2106	8-759-008-37	IC MC74HC4050F	
IC2107	8-759-008-37	IC MC74HC4050F	
IC2108	8-759-238-47	IC TC74HCT7007AF(EL)	
IC2109	8-759-233-44	IC TC74HC595AF	
IC2110	8-759-058-62	IC TC7S08FU(TE85R)	
IC2111	8-759-277-63	IC TC7W14FU(TE12R)	
IC2112	8-759-450-49	IC BA07T (EXCEPT AEP)	
		< JUMPER RESISTOR >	
JR1004	1-216-295-11	SHORT CHIP 0	
JR1005	1-216-295-11	SHORT CHIP 0	
JR1007	1-216-295-11	SHORT CHIP 0	

Ref. No.	Part No.	Description	Remark
		< TRANSISTOR >	
Q1101	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1102	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1601	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q1602	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q1603	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q1604	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q1605	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q1606	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q1607	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q1608	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q1609	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q1801	8-729-140-93	TRANSISTOR 2SB733-34	
Q1802	8-729-140-98	TRANSISTOR 2SD773-34	
Q1803	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q1804	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1805	8-729-140-93	TRANSISTOR 2SB733-34	
Q1806	8-729-140-93	TRANSISTOR 2SB733-34	
Q1807	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1901	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q1902	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q1903	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q2001	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q2002	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q2003	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q2101	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q2102	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16	
Q2103	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16	
Q2104	8-729-140-93	TRANSISTOR 2SB733-34 (EXCEPT AEP)	
		< RESISTOR >	
R1101	1-216-073-00	RES-CHIP 10K 5% 1/10W	
R1102	1-216-073-00	RES-CHIP 10K 5% 1/10W	
R1103	1-216-025-11	RES-CHIP 100 5% 1/10W	
R1104	1-216-025-11	RES-CHIP 100 5% 1/10W	
R1105	1-216-065-11	RES-CHIP 4.7K 5% 1/10W	
R1106	1-216-025-11	RES-CHIP 100 5% 1/10W	
R1107	1-216-025-11	RES-CHIP 100 5% 1/10W	
R1109	1-216-033-00	METAL CHIP 220 5% 1/10W	
R1110	1-216-121-11	RES-CHIP 1M 5% 1/10W	
R1112	1-216-025-11	RES-CHIP 100 5% 1/10W	
R1114	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R1115	1-216-025-11	RES-CHIP 100 5% 1/10W	
R1116	1-216-025-11	RES-CHIP 100 5% 1/10W	
R1118	1-216-304-11	METAL CHIP 3.3 5% 1/10W	
R1119	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
R1120	1-216-089-11	RES-CHIP 47K 5% 1/10W	
R1121	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R1122	1-216-121-11	RES-CHIP 1M 5% 1/10W	
R1123	1-216-025-11	RES-CHIP 100 5% 1/10W	
R1124	1-216-089-11	RES-CHIP 47K 5% 1/10W	
R1125	1-216-073-00	RES-CHIP 10K 5% 1/10W	
R1126	1-216-097-11	RES-CHIP 100K 5% 1/10W	
R1201	1-216-025-11	RES-CHIP 100 5% 1/10W	
R1202	1-216-025-11	RES-CHIP 100 5% 1/10W	
R1203	1-216-025-11	RES-CHIP 100 5% 1/10W	
R1204	1-216-295-11	SHORT CHIP 0	

Ref. No.	Part No.	Description			Remark
R1205	1-216-025-11	RES-CHIP	100	5%	1/10W
R1206	1-216-025-11	RES-CHIP	100	5%	1/10W
R1207	1-216-025-11	RES-CHIP	100	5%	1/10W
R1208	1-216-025-11	RES-CHIP	100	5%	1/10W
R1209	1-216-025-11	RES-CHIP	100	5%	1/10W
R1210	1-216-025-11	RES-CHIP	100	5%	1/10W
R1211	1-216-025-11	RES-CHIP	100	5%	1/10W
R1213	1-216-025-11	RES-CHIP	100	5%	1/10W
R1216	1-216-295-11	SHORT CHIP	0		
R1218	1-216-025-11	RES-CHIP	100	5%	1/10W
R1219	1-216-295-11	SHORT CHIP	0		
R1221	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1222	1-216-025-11	RES-CHIP	100	5%	1/10W
R1223	1-216-025-11	RES-CHIP	100	5%	1/10W
R1224	1-216-025-11	RES-CHIP	100	5%	1/10W
R1225	1-216-025-11	RES-CHIP	100	5%	1/10W
R1226	1-216-025-11	RES-CHIP	100	5%	1/10W
R1227	1-216-025-11	RES-CHIP	100	5%	1/10W
R1228	1-216-025-11	RES-CHIP	100	5%	1/10W
R1229	1-216-025-11	RES-CHIP	100	5%	1/10W
R1230	1-216-025-11	RES-CHIP	100	5%	1/10W
R1231	1-216-025-11	RES-CHIP	100	5%	1/10W
R1232	1-216-025-11	RES-CHIP	100	5%	1/10W
R1233	1-216-025-11	RES-CHIP	100	5%	1/10W
R1234	1-216-025-11	RES-CHIP	100	5%	1/10W
R1235	1-216-025-11	RES-CHIP	100	5%	1/10W
R1236	1-216-025-11	RES-CHIP	100	5%	1/10W
R1237	1-216-025-11	RES-CHIP	100	5%	1/10W
R1238	1-216-295-11	SHORT CHIP	0		
R1239	1-216-025-11	RES-CHIP	100	5%	1/10W
R1240	1-216-025-11	RES-CHIP	100	5%	1/10W
R1241	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1242	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1243	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1244	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1245	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1246	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1247	1-216-295-11	SHORT CHIP	0		
R1248	1-216-295-11	SHORT CHIP	0		
R1402	1-216-025-11	RES-CHIP	100	5%	1/10W
R1403	1-216-025-11	RES-CHIP	100	5%	1/10W
R1404	1-216-025-11	RES-CHIP	100	5%	1/10W
R1405	1-216-025-11	RES-CHIP	100	5%	1/10W
R1406	1-216-025-11	RES-CHIP	100	5%	1/10W
R1407	1-216-025-11	RES-CHIP	100	5%	1/10W
R1408	1-216-295-11	SHORT CHIP	0		
R1409	1-216-295-11	SHORT CHIP	0		
R1410	1-216-025-11	RES-CHIP	100	5%	1/10W
R1411	1-216-025-11	RES-CHIP	100	5%	1/10W
R1412	1-216-025-11	RES-CHIP	100	5%	1/10W
R1413	1-216-025-11	RES-CHIP	100	5%	1/10W
R1414	1-216-025-11	RES-CHIP	100	5%	1/10W
R1416	1-216-295-11	SHORT CHIP	0		
R1418	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1419	1-216-025-11	RES-CHIP	100	5%	1/10W
R1420	1-216-025-11	RES-CHIP	100	5%	1/10W
R1421	1-216-025-11	RES-CHIP	100	5%	1/10W
R1422	1-216-025-11	RES-CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1423	1-216-025-11	RES-CHIP	100	5%	1/10W
R1424	1-216-025-11	RES-CHIP	100	5%	1/10W
R1425	1-216-025-11	RES-CHIP	100	5%	1/10W
R1426	1-216-025-11	RES-CHIP	100	5%	1/10W
R1427	1-216-025-11	RES-CHIP	100	5%	1/10W
R1428	1-216-025-11	RES-CHIP	100	5%	1/10W
R1429	1-216-025-11	RES-CHIP	100	5%	1/10W
R1430	1-216-025-11	RES-CHIP	100	5%	1/10W
R1431	1-216-025-11	RES-CHIP	100	5%	1/10W
R1432	1-216-025-11	RES-CHIP	100	5%	1/10W
R1433	1-216-025-11	RES-CHIP	100	5%	1/10W
R1434	1-216-025-11	RES-CHIP	100	5%	1/10W
R1435	1-216-295-11	SHORT CHIP	0		
R1436	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1437	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1438	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1439	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1440	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1501	1-216-025-11	RES-CHIP	100	5%	1/10W
R1502	1-216-025-11	RES-CHIP	100	5%	1/10W
R1503	1-216-025-11	RES-CHIP	100	5%	1/10W
R1504	1-216-025-11	RES-CHIP	100	5%	1/10W
R1506	1-216-295-11	SHORT CHIP	0		
R1507	1-216-295-11	SHORT CHIP	0		
R1508	1-216-025-11	RES-CHIP	100	5%	1/10W
R1509	1-216-025-11	RES-CHIP	100	5%	1/10W
R1510	1-216-025-11	RES-CHIP	100	5%	1/10W
R1511	1-216-025-11	RES-CHIP	100	5%	1/10W
R1512	1-216-025-11	RES-CHIP	100	5%	1/10W
R1513	1-216-025-11	RES-CHIP	100	5%	1/10W
R1514	1-216-025-11	RES-CHIP	100	5%	1/10W
R1515	1-216-025-11	RES-CHIP	100	5%	1/10W
R1516	1-216-025-11	RES-CHIP	100	5%	1/10W
R1517	1-216-025-11	RES-CHIP	100	5%	1/10W
R1518	1-216-025-11	RES-CHIP	100	5%	1/10W
R1520	1-216-295-11	SHORT CHIP	0		
R1522	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1523	1-216-025-11	RES-CHIP	100	5%	1/10W
R1524	1-216-025-11	RES-CHIP	100	5%	1/10W
R1525	1-216-025-11	RES-CHIP	100	5%	1/10W
R1526	1-216-025-11	RES-CHIP	100	5%	1/10W
R1527	1-216-025-11	RES-CHIP	100	5%	1/10W
R1528	1-216-025-11	RES-CHIP	100	5%	1/10W
R1529	1-216-025-11	RES-CHIP	100	5%	1/10W
R1530	1-216-025-11	RES-CHIP	100	5%	1/10W
R1531	1-216-025-11	RES-CHIP	100	5%	1/10W
R1533	1-216-025-11	RES-CHIP	100	5%	1/10W
R1534	1-216-025-11	RES-CHIP	100	5%	1/10W
R1535	1-216-025-11	RES-CHIP	100	5%	1/10W
R1536	1-216-025-11	RES-CHIP	100	5%	1/10W
R1537	1-216-025-11	RES-CHIP	100	5%	1/10W
R1538	1-216-025-11	RES-CHIP	100	5%	1/10W
R1539	1-216-025-11	RES-CHIP	100	5%	1/10W
R1540	1-216-025-11	RES-CHIP	100	5%	1/10W
R1541	1-216-025-11	RES-CHIP	100	5%	1/10W
R1542	1-216-025-11	RES-CHIP	100	5%	1/10W
R1543	1-216-025-11	RES-CHIP	100	5%	1/10W
R1544	1-216-025-11	RES-CHIP	100	5%	1/10W

DIGITAL

Ref. No.	Part No.	Description			Remark
R1545	1-216-025-11	RES-CHIP	100	5%	1/10W
R1546	1-216-025-11	RES-CHIP	100	5%	1/10W
R1547	1-216-025-11	RES-CHIP	100	5%	1/10W
R1548	1-216-025-11	RES-CHIP	100	5%	1/10W
R1550	1-216-025-11	RES-CHIP	100	5%	1/10W
R1551	1-216-295-11	SHORT CHIP	0		
R1552	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1553	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1554	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1555	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1556	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1601	1-216-025-11	RES-CHIP	100	5%	1/10W
R1602	1-216-025-11	RES-CHIP	100	5%	1/10W
R1603	1-216-025-11	RES-CHIP	100	5%	1/10W
R1604	1-216-025-11	RES-CHIP	100	5%	1/10W
R1605	1-216-025-11	RES-CHIP	100	5%	1/10W
R1606	1-216-025-11	RES-CHIP	100	5%	1/10W
R1607	1-216-025-11	RES-CHIP	100	5%	1/10W
R1608	1-216-025-11	RES-CHIP	100	5%	1/10W
R1609	1-216-025-11	RES-CHIP	100	5%	1/10W
R1610	1-216-025-11	RES-CHIP	100	5%	1/10W
R1611	1-208-508-11	RES-CHIP	8.2K	2%	1/8W (EXCEPT AEP)
R1611	1-260-007-11	CARBON MELF	8.2K	2%	1/8W (AEP)
R1612	1-208-508-11	RES-CHIP	8.2K	2%	1/8W (EXCEPT AEP)
R1612	1-260-007-11	CARBON MELF	8.2K	2%	1/8W (AEP)
R1613	1-208-508-11	RES-CHIP	8.2K	2%	1/8W (EXCEPT AEP)
R1613	1-260-007-11	CARBON MELF	8.2K	2%	1/8W (AEP)
R1614	1-208-508-11	RES-CHIP	8.2K	2%	1/8W (EXCEPT AEP)
R1614	1-260-007-11	CARBON MELF	8.2K	2%	1/8W (AEP)
R1615	1-208-508-11	RES-CHIP	8.2K	2%	1/8W (EXCEPT AEP)
R1615	1-260-007-11	CARBON MELF	8.2K	2%	1/8W (AEP)
R1616	1-208-508-11	RES-CHIP	8.2K	2%	1/8W (EXCEPT AEP)
R1616	1-260-007-11	CARBON MELF	8.2K	2%	1/8W (AEP)
R1617	1-208-508-11	RES-CHIP	8.2K	2%	1/8W (EXCEPT AEP)
R1617	1-260-007-11	CARBON MELF	8.2K	2%	1/8W (AEP)
R1618	1-208-508-11	RES-CHIP	8.2K	2%	1/8W (EXCEPT AEP)
R1618	1-260-007-11	CARBON MELF	8.2K	2%	1/8W (AEP)
R1619	1-216-230-00	RES-CHIP	22K	2%	1/8W (EXCEPT AEP)
R1619	1-260-012-11	CARBON MELF	22K	2%	1/8W (AEP)
R1620	1-216-230-00	RES-CHIP	22K	2%	1/8W (EXCEPT AEP)
R1620	1-260-012-11	CARBON MELF	22K	2%	1/8W (AEP)
R1621	1-216-230-00	RES-CHIP	22K	2%	1/8W (EXCEPT AEP)
R1621	1-260-012-11	CARBON MELF	22K	2%	1/8W (AEP)
R1622	1-216-230-00	RES-CHIP	22K	2%	1/8W (EXCEPT AEP)
R1622	1-260-012-11	CARBON MELF	22K	2%	1/8W (AEP)
R1623	1-216-230-00	RES-CHIP	22K	2%	1/8W (EXCEPT AEP)
R1623	1-260-012-11	CARBON MELF	22K	2%	1/8W (AEP)
R1624	1-216-230-00	RES-CHIP	22K	2%	1/8W (EXCEPT AEP)
R1624	1-260-012-11	CARBON MELF	22K	2%	1/8W (AEP)
R1625	1-216-230-00	RES-CHIP	22K	2%	1/8W (EXCEPT AEP)
R1625	1-260-012-11	CARBON MELF	22K	2%	1/8W (AEP)
R1626	1-216-230-00	RES-CHIP	22K	2%	1/8W (EXCEPT AEP)
R1626	1-260-012-11	CARBON MELF	22K	2%	1/8W (AEP)
R1627	1-216-202-00	RES-CHIP	1.5K	2%	1/8W (EXCEPT AEP)
R1627	1-259-997-11	CARBON MELF	1.5K	2%	1/8W (AEP)
R1628	1-216-202-00	RES-CHIP	1.5K	2%	1/8W (EXCEPT AEP)
R1628	1-259-997-11	CARBON MELF	1.5K	2%	1/8W (AEP)
R1629	1-216-202-00	RES-CHIP	1.5K	2%	1/8W (EXCEPT AEP)
R1629	1-259-997-11	CARBON MELF	1.5K	2%	1/8W (AEP)
R1630	1-216-202-00	RES-CHIP	1.5K	2%	1/8W (EXCEPT AEP)
R1630	1-259-997-11	CARBON MELF	1.5K	2%	1/8W (AEP)
R1631	1-216-202-00	RES-CHIP	1.5K	2%	1/8W (EXCEPT AEP)
R1631	1-259-997-11	CARBON MELF	1.5K	2%	1/8W (AEP)
R1632	1-216-202-00	RES-CHIP	1.5K	2%	1/8W (EXCEPT AEP)
R1632	1-259-997-11	CARBON MELF	1.5K	2%	1/8W (AEP)
R1633	1-216-202-00	RES-CHIP	1.5K	2%	1/8W (EXCEPT AEP)
R1633	1-259-997-11	CARBON MELF	1.5K	2%	1/8W (AEP)
R1634	1-216-202-00	RES-CHIP	1.5K	2%	1/8W (EXCEPT AEP)
R1634	1-259-997-11	CARBON MELF	1.5K	2%	1/8W (AEP)
R1635	1-216-246-00	RES-CHIP	100K	2%	1/8W (EXCEPT AEP)
R1635	1-260-020-11	CARBON MELF	100K	2%	1/8W (AEP)
R1636	1-216-246-00	RES-CHIP	100K	2%	1/8W (EXCEPT AEP)

Ref. No.	Part No.	Description			Remark
R1636	1-260-020-11	CARBON MELF	100K	2%	1/8W (AEP)
R1637	1-216-246-00	RES-CHIP	100K	2%	1/8W (EXCEPT AEP)
R1637	1-260-020-11	CARBON MELF	100K	2%	1/8W (AEP)
R1638	1-216-246-00	RES-CHIP	100K	2%	1/8W (EXCEPT AEP)
R1638	1-260-020-11	CARBON MELF	100K	2%	1/8W (AEP)
R1639	1-216-246-00	RES-CHIP	100K	2%	1/8W (EXCEPT AEP)
R1639	1-260-020-11	CARBON MELF	100K	2%	1/8W (AEP)
R1640	1-216-246-00	RES-CHIP	100K	2%	1/8W (EXCEPT AEP)
R1640	1-260-020-11	CARBON MELF	100K	2%	1/8W (AEP)
R1641	1-216-246-00	RES-CHIP	100K	2%	1/8W (EXCEPT AEP)
R1641	1-260-020-11	CARBON MELF	100K	2%	1/8W (AEP)
R1642	1-216-246-00	RES-CHIP	100K	2%	1/8W (EXCEPT AEP)
R1642	1-260-020-11	CARBON MELF	100K	2%	1/8W (AEP)
R1643	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R1644	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R1645	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R1646	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R1647	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R1648	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R1649	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R1650	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R1651	1-208-782-11	RES-CHIP	1K	2%	1/8W (EXCEPT AEP)
R1651	1-259-995-11	CARBON MELF	1K	2%	1/8W (AEP)
R1652	1-208-782-11	RES-CHIP	1K	2%	1/8W (EXCEPT AEP)
R1652	1-259-995-11	CARBON MELF	1K	2%	1/8W (AEP)
R1653	1-208-782-11	RES-CHIP	1K	2%	1/8W (EXCEPT AEP)
R1653	1-259-995-11	CARBON MELF	1K	2%	1/8W (AEP)
R1654	1-208-782-11	RES-CHIP	1K	2%	1/8W (EXCEPT AEP)
R1654	1-259-995-11	CARBON MELF	1K	2%	1/8W (AEP)
R1655	1-208-782-11	RES-CHIP	1K	2%	1/8W (EXCEPT AEP)
R1655	1-259-995-11	CARBON MELF	1K	2%	1/8W (AEP)
R1656	1-208-782-11	RES-CHIP	1K	2%	1/8W (EXCEPT AEP)
R1656	1-259-995-11	CARBON MELF	1K	2%	1/8W (AEP)
R1657	1-208-782-11	RES-CHIP	1K	2%	1/8W (EXCEPT AEP)
R1657	1-259-995-11	CARBON MELF	1K	2%	1/8W (AEP)
R1658	1-208-782-11	RES-CHIP	1K	2%	1/8W (EXCEPT AEP)
R1658	1-259-995-11	CARBON MELF	1K	2%	1/8W (AEP)
R1659	1-216-121-11	RES-CHIP	1M	5%	1/10W
R1660	1-216-121-11	RES-CHIP	1M	5%	1/10W
R1701	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1702	1-216-214-00	RES-CHIP	4.7K	2%	1/8W
R1703	1-216-214-00	RES-CHIP	4.7K	2%	1/8W
R1704	1-208-474-61	RES-CHIP	330	2%	1/8W (EXCEPT AEP)
R1704	1-259-989-11	CARBON MELF	330	2%	1/8W (AEP)
R1705	1-208-474-61	RES-CHIP	330	2%	1/8W (EXCEPT AEP)
R1705	1-259-989-11	CARBON MELF	330	2%	1/8W (AEP)
R1706	1-208-474-61	RES-CHIP	330	2%	1/8W (EXCEPT AEP)
R1706	1-259-989-11	CARBON MELF	330	2%	1/8W (AEP)
R1707	1-208-474-61	RES-CHIP	330	2%	1/8W (EXCEPT AEP)
R1707	1-259-989-11	CARBON MELF	330	2%	1/8W (AEP)
R1708	1-208-509-11	RES-CHIP	9.1K	2%	1/8W (EXCEPT AEP)
R1708	1-259-934-11	CARBON MELF	9.1K	2%	1/8W (AEP)
R1709	1-208-509-11	RES-CHIP	9.1K	2%	1/8W (EXCEPT AEP)
R1709	1-259-934-11	CARBON MELF	9.1K	2%	1/8W (AEP)
R1710	1-208-509-11	RES-CHIP	9.1K	2%	1/8W (EXCEPT AEP)
R1710	1-259-934-11	CARBON MELF	9.1K	2%	1/8W (AEP)
R1711	1-208-509-11	RES-CHIP	9.1K	2%	1/8W (EXCEPT AEP)
R1711	1-259-934-11	CARBON MELF	9.1K	2%	1/8W (AEP)
R1712	1-208-509-11	RES-CHIP	9.1K	2%	1/8W (EXCEPT AEP)
R1712	1-259-934-11	CARBON MELF	9.1K	2%	1/8W (AEP)
R1713	1-208-509-11	RES-CHIP	9.1K	2%	1/8W (EXCEPT AEP)
R1713	1-259-934-11	CARBON MELF	9.1K	2%	1/8W (AEP)
R1714	1-216-230-00	RES-CHIP	22K	2%	1/8W (EXCEPT AEP)
R1714	1-260-012-11	CARBON MELF	22K	2%	1/8W (AEP)
R1715	1-216-230-00	RES-CHIP	22K	2%	1/8W (EXCEPT AEP)
R1715	1-260-012-11	CARBON MELF	22K	2%	1/8W (AEP)
R1716	1-216-238-00	RES-CHIP	47K	2%	1/8W (EXCEPT AEP)
R1716	1-260-016-11	CARBON MELF	47K	2%	1/8W (AEP)
R1717	1-216-238-00	RES-CHIP	47K	2%	1/8W (EXCEPT AEP)

DIGITAL

Ref. No.	Part No.	Description			Remark
R1717	1-260-016-11	CARBON MELF	47K	2%	1/8W (AEP)
R1801	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1802	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1804	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1806	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1807	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1813	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1814	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1815	1-245-290-11	CEMENTED	4.7	5%	5W
R1901	1-216-121-11	RES-CHIP	1M	5%	1/10W
R1902	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1903	1-216-025-11	RES-CHIP	100	5%	1/10W
R1904	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1905	1-216-001-00	METAL CHIP	10	5%	1/10W
R1906	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1907	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1908	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1909	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R1910	1-216-025-11	RES-CHIP	100	5%	1/10W
R1911	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1912	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1913	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1914	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1915	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1916	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1917	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1918	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1919	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2001	1-216-061-11	RES-CHIP	3.3K	5%	1/10W
R2002	1-216-061-11	RES-CHIP	3.3K	5%	1/10W
R2003	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R2004	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R2005	1-216-025-11	RES-CHIP	100	5%	1/10W
R2006	1-216-025-11	RES-CHIP	100	5%	1/10W
R2007	1-216-025-11	RES-CHIP	100	5%	1/10W
R2008	1-216-025-11	RES-CHIP	100	5%	1/10W
R2009	1-216-025-11	RES-CHIP	100	5%	1/10W
R2012	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2014	1-216-025-11	RES-CHIP	100	5%	1/10W
R2015	1-216-025-11	RES-CHIP	100	5%	1/10W
R2016	1-216-025-11	RES-CHIP	100	5%	1/10W
R2017	1-216-025-11	RES-CHIP	100	5%	1/10W
R2018	1-216-025-11	RES-CHIP	100	5%	1/10W
R2019	1-216-025-11	RES-CHIP	100	5%	1/10W
R2020	1-216-025-11	RES-CHIP	100	5%	1/10W
R2021	1-216-025-11	RES-CHIP	100	5%	1/10W
R2022	1-216-025-11	RES-CHIP	100	5%	1/10W
R2024	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2025	1-216-025-11	RES-CHIP	100	5%	1/10W
R2026	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2027	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2028	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2029	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2030	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2031	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2032	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2033	1-216-073-00	RES-CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R2034	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2035	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2036	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2037	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2038	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2039	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2040	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2041	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2042	1-216-061-11	RES-CHIP	3.3K	5%	1/10W (AEP)
R2042	1-216-081-00	METAL CHIP	22K	5%	1/10W (TW,KR)
R2042	1-216-295-11	SHORT CHIP	0		(DA4ES)
R2043	1-216-025-11	RES-CHIP	100	5%	1/10W
R2044	1-216-025-11	RES-CHIP	100	5%	1/10W
R2045	1-216-025-11	RES-CHIP	100	5%	1/10W
R2046	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2049	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2050	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2051	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2052	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2053	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2054	1-216-025-11	RES-CHIP	100	5%	1/10W
R2055	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2057	1-216-295-11	SHORT CHIP	0		(EXCEPT AEP)
R2058	1-216-286-00	RES-CHIP	4.7M	5%	1/8W (AEP)
R2059	1-216-295-11	SHORT CHIP	0		
R2060	1-216-295-11	SHORT CHIP	0		(DA4ES/VA333ES)
R2061	1-216-295-11	SHORT CHIP	0		
R2062	1-216-295-11	SHORT CHIP	0		(AEP)
R2101	1-216-025-11	RES-CHIP	100	5%	1/10W
R2102	1-216-025-11	RES-CHIP	100	5%	1/10W
R2103	1-216-025-11	RES-CHIP	100	5%	1/10W
R2104	1-216-025-11	RES-CHIP	100	5%	1/10W (AEP)
R2105	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (AEP)
R2106	1-216-025-11	RES-CHIP	100	5%	1/10W (AEP)
R2107	1-216-025-11	RES-CHIP	100	5%	1/10W
R2108	1-216-025-11	RES-CHIP	100	5%	1/10W
R2109	1-216-025-11	RES-CHIP	100	5%	1/10W
R2110	1-216-025-11	RES-CHIP	100	5%	1/10W
R2111	1-216-025-11	RES-CHIP	100	5%	1/10W
R2112	1-216-025-11	RES-CHIP	100	5%	1/10W
R2113	1-216-025-11	RES-CHIP	100	5%	1/10W
R2114	1-216-025-11	RES-CHIP	100	5%	1/10W
R2115	1-216-025-11	RES-CHIP	100	5%	1/10W
R2116	1-216-025-11	RES-CHIP	100	5%	1/10W
R2117	1-216-025-11	RES-CHIP	100	5%	1/10W
R2118	1-216-025-11	RES-CHIP	100	5%	1/10W
R2119	1-216-025-11	RES-CHIP	100	5%	1/10W
R2120	1-216-025-11	RES-CHIP	100	5%	1/10W
R2121	1-216-025-11	RES-CHIP	100	5%	1/10W
R2122	1-216-025-11	RES-CHIP	100	5%	1/10W
R2123	1-216-025-11	RES-CHIP	100	5%	1/10W
R2124	1-216-025-11	RES-CHIP	100	5%	1/10W
R2125	1-216-025-11	RES-CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R2126	1-216-025-11	RES-CHIP	100	5%	1/10W
R2127	1-216-025-11	RES-CHIP	100	5%	1/10W
R2128	1-216-025-11	RES-CHIP	100	5%	1/10W
R2129	1-216-025-11	RES-CHIP	100	5%	1/10W
R2130	1-216-025-11	RES-CHIP	100	5%	1/10W
R2131	1-216-025-11	RES-CHIP	100	5%	1/10W
R2132	1-216-025-11	RES-CHIP	100	5%	1/10W
R2133	1-216-025-11	RES-CHIP	100	5%	1/10W
R2134	1-216-025-11	RES-CHIP	100	5%	1/10W
R2135	1-216-025-11	RES-CHIP	100	5%	1/10W
R2136	1-216-025-11	RES-CHIP	100	5%	1/10W
R2137	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2138	1-216-025-11	RES-CHIP	100	5%	1/10W
R2139	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2140	1-216-025-11	RES-CHIP	100	5%	1/10W
R2141	1-216-025-11	RES-CHIP	100	5%	1/10W
R2142	1-216-025-11	RES-CHIP	100	5%	1/10W
R2144	1-216-025-11	RES-CHIP	100	5%	1/10W
R2145	1-216-025-11	RES-CHIP	100	5%	1/10W
R2146	1-216-025-11	RES-CHIP	100	5%	1/10W
R2147	1-216-025-11	RES-CHIP	100	5%	1/10W
R2148	1-216-025-11	RES-CHIP	100	5%	1/10W
R2159	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2161	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2162	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2163	1-216-097-11	RES-CHIP	100K	5%	1/10W
R2164	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2165	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2166	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2167	1-216-037-00	METAL CHIP	330	5%	1/10W
R2168	1-216-025-11	RES-CHIP	100	5%	1/10W (DA4ES/DA7ES)
R2169	1-216-025-11	RES-CHIP	100	5%	1/10W (DA4ES/DA7ES)
R2170	1-216-025-11	RES-CHIP	100	5%	1/10W (DA4ES/DA7ES)
R2171	1-216-025-11	RES-CHIP	100	5%	1/10W (DA7ES)
R2172	1-216-025-11	RES-CHIP	100	5%	1/10W (DA4ES/DA7ES)
R2173	1-216-025-11	RES-CHIP	100	5%	1/10W
R2174	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (EXCEPT AEP)
R2175	1-216-073-00	RES-CHIP	10K	5%	1/10W
		< VIBRATOR >			
X1101	1-795-219-21	VIBRATOR, CRYSTAL (24.576MHz)			
X1201	1-795-711-11	VIBRATOR, CRYSTAL (13.5MHz)			
X1401	1-781-312-11	VIBRATOR, CERAMIC (12.5MHz)			
X1501	1-781-312-11	VIBRATOR, CERAMIC (12.5MHz)			
X1901	1-767-938-21	VIBRATOR, CERAMIC (7.28MHz)			
X2001	1-795-179-21	VIBRATOR, CERAMIC (16.5MHz)			
X2101	1-781-536-11	VIBRATOR, CRYSTAL (4.33MHz) (AEP)			

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Ref. No.	Part No.	Description			Remark
	A-4728-944-A	DIGITAL INPUT BOARD, COMPLETE (DA4ES/DA7ES)			
	A-4728-979-A	DIGITAL INPUT BOARD, COMPLETE (VA333ES)			
		**********			
		< CAPACITOR >			
C1002	1-119-836-31	ELECT	47uF	20%	63V (VA333ES)
C1002	1-128-840-11	ELECT	47uF	20%	16V (DA4ES/DA7ES)
C1003	1-119-836-31	ELECT	47uF	20%	63V (VA333ES)
C1003	1-128-840-11	ELECT	47uF	20%	16V (DA4ES/DA7ES)
C1005	1-163-243-11	CERAMIC CHIP	0.1uF		50V
C1009	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1011	1-125-890-11	ELECT	1000uF	20%	6.3V (VA333ES)
C1011	1-137-658-11	ELECT	1000uF	20%	6.3V (DA4ES/DA7ES)
C1012	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1013	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1014	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1015	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1017	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1018	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1019	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1022	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1023	1-119-799-11	ELECT	47uF	20%	16V (VA333ES)
C1023	1-128-840-11	ELECT	47uF	20%	16V (DA4ES/DA7ES)
C1024	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1025	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1026	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1027	1-165-319-11	CERAMIC CHIP	0.1uF		50V
		< CONNECTOR >			
* CN1001	1-564-726-11	PIN, CONNECTOR (SMALL TYPE)10P			
		< DIODE >			
D1001	8-719-988-61	DIODE 1SS355TE-17			
D1002	8-719-801-78	DIODE 1SS184			
D1003	8-719-988-61	DIODE 1SS355TE-17			
		< FERRITE BEAD >			
FB1001	1-469-152-11	FERRITE, EMI (SMD)			
FB1002	1-469-152-11	FERRITE, EMI (SMD)			
		< IC >			
IC1001	6-600-000-01	IC GP1FA512RZB (DVD/LD OPTICAL IN)			
IC1002	6-600-000-01	IC GP1FA512RZB (TV/SAT OPTICAL IN)			
IC1003	6-600-000-01	IC GP1FA512RZB (MD/DAT OPTICAL IN)			
IC1004	6-600-001-01	IC GP1FA512TZC (MD/DAT OPTICAL OUT)			
IC1005	6-600-000-01	IC GP1FA512RZB (CD/SACD OPTICAL IN)			
IC1006	8-759-233-64	IC TC74HCU04AF			
IC1007	8-759-243-84	IC TC74ACT151F			
IC1008	8-759-566-06	IC TC7WH08FU(TE12R)			

DIGITAL INPUT DISPLAY

Ref. No.	Part No.	Description			Remark
		< JACK >			
J1002	1-794-434-11	JACK, PIN 2P (CD/SACD COAXIAL IN, DVD/LD COAXIAL IN)			
		< RESISTOR >			
R1001	1-208-410-41	RES-CHIP	75	2%	1/8W (DA4ES/DA7ES)
R1001	1-259-909-11	CARBON MELF	75	2%	1/8W (VA333ES)
R1002	1-208-410-41	RES-CHIP	75	2%	1/8W (DA4ES/DA7ES)
R1002	1-259-909-11	CARBON MELF	75	2%	1/8W (VA333ES)
R1003	1-216-190-00	RES-CHIP	470	2%	1/8W (DA4ES/DA7ES)
R1003	1-259-991-11	CARBON MELF	470	2%	1/8W (VA333ES)
R1004	1-216-190-00	RES-CHIP	470	2%	1/8W (DA4ES/DA7ES)
R1004	1-259-991-11	CARBON MELF	470	2%	1/8W (VA333ES)
R1005	1-216-230-00	RES-CHIP	22K	2%	1/8W (DA4ES/DA7ES)
R1005	1-260-012-11	CARBON MELF	22K	2%	1/8W (VA333ES)
R1006	1-216-230-00	RES-CHIP	22K	2%	1/8W (DA4ES/DA7ES)
R1006	1-260-012-11	CARBON MELF	22K	2%	1/8W (VA333ES)
R1007	1-208-593-41	RES-CHIP	560K	2%	1/8W (DA4ES/DA7ES)
R1007	1-260-029-11	CARBON MELF	560K	2%	1/8W (VA333ES)
R1008	1-208-593-41	RES-CHIP	560K	2%	1/8W (DA4ES/DA7ES)
R1008	1-260-029-11	CARBON MELF	560K	2%	1/8W (VA333ES)
R1009	1-216-025-11	RES-CHIP	100	5%	1/10W
R1010	1-216-025-11	RES-CHIP	100	5%	1/10W
R1011	1-216-295-11	SHORT CHIP	0		
R1012	1-216-025-11	RES-CHIP	100	5%	1/10W
R1013	1-216-025-11	RES-CHIP	100	5%	1/10W
R1014	1-216-025-11	RES-CHIP	100	5%	1/10W
R1016	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1017	1-216-025-11	RES-CHIP	100	5%	1/10W
**********					
	A-4728-901-A	DISPLAY BOARD, COMPLETE (VA333ES)			
	A-4728-931-A	DISPLAY BOARD, COMPLETE (DA4ES/DA7ES)			
		**********			
	4-228-836-01	HOLDER, FL TUBE			
		< CAPACITOR >			
C101	1-126-947-11	ELECT	47uF	20%	16V
C102	1-126-964-11	ELECT	10uF	20%	50V
C103	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C104	1-126-947-11	ELECT	47uF	20%	16V
C105	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C106	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C107	1-165-319-11	CERAMIC CHIP	0.1uF		50V

Ref. No.	Part No.	Description			Remark
C109	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C110	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C111	1-126-916-11	ELECT	1000uF	20%	6.3V
C126	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C127	1-165-319-11	CERAMIC CHIP	0.1uF		50V
		< CONNECTOR >			
CNP113	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			
CNS101	1-784-776-11	CONNECTOR, FFC 15P			
CNS102	1-568-838-11	CONNECTOR, FFC 21P			
		< DIODE >			
D101	8-719-075-59	LED SELS5B23C-TP15 (digital cinema sound)			
D102	8-719-075-59	LED SELS5B23C-TP15 (SB DEC)			
D103	8-719-075-59	LED SELS5B23C-TP15 (NIGHT MODE)			
D104	8-719-032-98	LED SEL5820A-TP15 (DIMMER)			
D105	8-719-032-98	LED SEL5820A-TP15 (2ND ROOM)			
D106	8-719-032-98	LED SEL5820A-TP15 (SURROUND)			
D107	8-719-032-98	LED SEL5820A-TP15 (LEVEL)			
D108	8-719-032-98	LED SEL5820A-TP15 (CUSTOMIZE)			
D109	8-719-032-98	LED SEL5820A-TP15 (EQ)			
D110	8-719-032-98	LED SEL5820A-TP15 (SET UP)			
D111	8-719-075-86	LED SID307BR-TP19 (SIRCS OUT)			
D112	8-719-059-14	LED SID313BP-TP19 (SIRCS OUT)			
D113	8-719-075-86	LED SID307BR-TP19 (SIRCS OUT)			
D114	8-719-988-61	DIODE 1SS355TE-17			
D115	8-719-988-61	DIODE 1SS355TE-17			
D119	8-719-988-61	DIODE 1SS355TE-17			
D120	8-719-988-61	DIODE 1SS355TE-17			
		< FLUORESCENT INDICATOR >			
FL101	1-518-747-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC101	8-759-459-85	IC NJL63H400A			
IC102	8-759-342-19	IC NJU3716M-T2			
IC104	8-759-242-70	IC TC7WU04F			
		< TRANSISTOR >			
Q101	8-729-801-93	TRANSISTOR 2SD1387			
Q102	8-729-801-93	TRANSISTOR 2SD1387			
		< RESISTOR >			
R101	1-216-025-11	RES-CHIP	100	5%	1/10W
R102	1-216-025-11	RES-CHIP	100	5%	1/10W
R103	1-216-073-00	RES-CHIP	10K	5%	1/10W
R104	1-216-025-11	RES-CHIP	100	5%	1/10W
R105	1-216-025-11	RES-CHIP	100	5%	1/10W
R106	1-216-025-11	RES-CHIP	100	5%	1/10W
R107	1-216-025-11	RES-CHIP	100	5%	1/10W
R108	1-216-025-11	RES-CHIP	100	5%	1/10W
R109	1-216-025-11	RES-CHIP	100	5%	1/10W
R110	1-216-025-11	RES-CHIP	100	5%	1/10W
R111	1-216-025-11	RES-CHIP	100	5%	1/10W
R112	1-216-025-11	RES-CHIP	100	5%	1/10W
R113	1-216-025-11	RES-CHIP	100	5%	1/10W
R117	1-216-073-00	RES-CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R118	1-216-001-00	METAL CHIP	10	5%	1/10W
R119	1-249-385-11	CARBON	2.2	5%	1/6W
R120	1-249-385-11	CARBON	2.2	5%	1/6W
R121	1-216-037-00	METAL CHIP	330	5%	1/10W
R122	1-216-037-00	METAL CHIP	330	5%	1/10W
R123	1-216-089-11	RES-CHIP	47K	5%	1/10W
R124	1-216-049-11	RES-CHIP	1K	5%	1/10W
R125	1-216-049-11	RES-CHIP	1K	5%	1/10W
R126	1-216-037-00	METAL CHIP	330	5%	1/10W
R127	1-216-029-00	METAL CHIP	150	5%	1/10W
R128	1-216-029-00	METAL CHIP	150	5%	1/10W
R129	1-216-037-00	METAL CHIP	330	5%	1/10W
R131	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R132	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R133	1-216-073-00	RES-CHIP	10K	5%	1/10W
R134	1-216-073-00	RES-CHIP	10K	5%	1/10W
R135	1-216-089-11	RES-CHIP	47K	5%	1/10W
R136	1-216-089-11	RES-CHIP	47K	5%	1/10W
R137	1-216-089-11	RES-CHIP	47K	5%	1/10W
R138	1-216-081-00	METAL CHIP	22K	5%	1/10W
R139	1-216-073-00	RES-CHIP	10K	5%	1/10W
R140	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R141	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R142	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R143	1-216-049-11	RES-CHIP	1K	5%	1/10W
R144	1-216-073-00	RES-CHIP	10K	5%	1/10W
R145	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R146	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R147	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R148	1-216-049-11	RES-CHIP	1K	5%	1/10W
R149	1-216-089-11	RES-CHIP	47K	5%	1/10W
R150	1-216-081-00	METAL CHIP	22K	5%	1/10W
R151	1-216-073-00	RES-CHIP	10K	5%	1/10W
R152	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R153	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R154	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R155	1-216-049-11	RES-CHIP	1K	5%	1/10W
R156	1-216-089-11	RES-CHIP	47K	5%	1/10W
R157	1-216-081-00	METAL CHIP	22K	5%	1/10W
R158	1-216-073-00	RES-CHIP	10K	5%	1/10W
R159	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R160	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R161	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R162	1-216-049-11	RES-CHIP	1K	5%	1/10W
R163	1-216-073-00	RES-CHIP	10K	5%	1/10W
R175	1-216-073-00	RES-CHIP	10K	5%	1/10W
R176	1-216-073-00	RES-CHIP	10K	5%	1/10W

< ROTARY ENCODER >

RV102	1-418-921-11	ENCODER, ROTARY (JOG DIAL)

< SWITCH >

S101	1-771-349-21	SWITCH, KEYBOARD (POWER)
S102	1-771-349-21	SWITCH, KEYBOARD (DISPLAY)
S103	1-771-349-21	SWITCH, KEYBOARD (DIMMER)
S104	1-771-349-21	SWITCH, KEYBOARD (CINEMA STUDIO EX)
S105	1-771-349-21	SWITCH, KEYBOARD (FM/AM)
S106	1-771-349-21	SWITCH, KEYBOARD (PRESET TUNING –)
S107	1-771-349-21	SWITCH, KEYBOARD (PRESET TUNING +)
S108	1-771-349-21	SWITCH, KEYBOARD (AUTO DEC)
S109	1-771-349-21	SWITCH, KEYBOARD (MODE –)
S110	1-771-349-21	SWITCH, KEYBOARD (MODE +)
S111	1-771-349-21	SWITCH, KEYBOARD (2CH STEREO)
S112	1-771-349-21	SWITCH, KEYBOARD (ANALOG DIRECT)
S113	1-771-349-21	SWITCH, KEYBOARD (MULTI CH DIRECT)
S114	1-771-349-21	SWITCH, KEYBOARD (DOLBY PL II/NEO:6)
S115	1-771-349-21	SWITCH, KEYBOARD (SURR BACK DECODING)
S116	1-771-349-21	SWITCH, KEYBOARD (TUNING –)
S117	1-771-349-21	SWITCH, KEYBOARD (TUNING +)
S118	1-771-349-21	SWITCH, KEYBOARD (2ND/3RD ROOM)
S119	1-771-349-21	SWITCH, KEYBOARD (ON SCREEN)
S120	1-771-349-21	SWITCH, KEYBOARD (SURROUND)
S121	1-771-349-21	SWITCH, KEYBOARD (LEVEL)
S122	1-771-349-21	SWITCH, KEYBOARD (JOG <)
S123	1-771-349-21	SWITCH, KEYBOARD (JOG >)
S124	1-771-349-21	SWITCH, KEYBOARD (FM MODE)
S125	1-771-349-21	SWITCH, KEYBOARD (MEMORY)
S126	1-771-349-21	SWITCH, KEYBOARD (NIGHT MODE)
S127	1-771-349-21	SWITCH, KEYBOARD (EQ BANK)
S128	1-771-349-21	SWITCH, KEYBOARD (CUSTOMIZE)
S129	1-771-349-21	SWITCH, KEYBOARD (EQ)
S130	1-771-349-21	SWITCH, KEYBOARD (ENTER)
S131	1-771-349-21	SWITCH, KEYBOARD (SET UP)

< SWITCH >

SW101	1-762-268-11	SWITCH, ROTARY (SPEAKERS)

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	A-4728-878-A	E-VOL BOARD, COMPLETE (DA4ES)
	A-4728-891-A	E-VOL BOARD, COMPLETE (VA333ES)
	A-4728-911-A	E-VOL BOARD, COMPLETE (DA7ES)

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< CAPACITOR >

C401	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C401	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C402	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C402	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C403	1-119-779-11	ELECT	220uF	20%	10V (VA333ES)
C403	1-128-832-11	ELECT	220uF	20%	10V (DA4ES/DA7ES)
C404	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C405	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C406	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C407	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C408	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)

E-VOL

Ref. No.	Part No.	Description			Remark
C409	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C410	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C411	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C411	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C412	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C412	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C413	1-119-779-11	ELECT	220uF	20%	10V (VA333ES)
C413	1-128-832-11	ELECT	220uF	20%	10V (DA4ES/DA7ES)
C414	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C415	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C416	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C417	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C418	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C419	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C420	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C421	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C421	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C422	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C422	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C423	1-119-779-11	ELECT	220uF	20%	10V (VA333ES)
C423	1-128-832-11	ELECT	220uF	20%	10V (DA4ES/DA7ES)
C424	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C425	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C426	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C427	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C428	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C429	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C430	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C431	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C431	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C432	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C432	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C433	1-119-779-11	ELECT	220uF	20%	10V (VA333ES)
C433	1-128-832-11	ELECT	220uF	20%	10V (DA4ES/DA7ES)
C434	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C435	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V (VA333ES)
C436	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V (VA333ES)
C438	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V (VA333ES)
C439	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V (VA333ES)
C440	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C441	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C441	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C442	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C442	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C443	1-119-779-11	ELECT	220uF	20%	10V (VA333ES)
C443	1-128-832-11	ELECT	220uF	20%	10V (DA4ES/DA7ES)
C444	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C445	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C446	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C447	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C448	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C449	1-127-718-11	ELECT	100uF	20%	16V
C450	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C450	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C451	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C451	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C452	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C452	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C453	1-119-779-11	ELECT	220uF	20%	10V (VA333ES)
C453	1-128-832-11	ELECT	220uF	20%	10V (DA4ES/DA7ES)
C454	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C454	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C455	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C455	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C456	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C456	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)

Ref. No.	Part No.	Description			Remark
C457	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C457	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C458	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C458	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C459	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C459	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C460	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C460	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C461	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C461	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C462	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C462	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C463	1-119-779-11	ELECT	220uF	20%	10V (VA333ES)
C463	1-128-832-11	ELECT	220uF	20%	10V (DA4ES/DA7ES)
C466	1-137-505-11	MYLAR	220PF	5%	50V
C467	1-137-505-11	MYLAR	220PF	5%	50V
C468	1-137-505-11	MYLAR	220PF	5%	50V
C469	1-137-505-11	MYLAR	220PF	5%	50V
C470	1-137-505-11	MYLAR	220PF	5%	50V
C471	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C471	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C472	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C472	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C473	1-119-779-11	ELECT	220uF	20%	10V (VA333ES)
C473	1-128-832-11	ELECT	220uF	20%	10V (DA4ES/DA7ES)
C474	1-137-505-11	MYLAR	220PF	5%	50V
C475	1-137-505-11	MYLAR	220PF	5%	50V
C476	1-137-505-11	MYLAR	220PF	5%	50V
C477	1-119-827-11	ELECT	47uF	20%	50V (VA333ES)
C477	1-128-860-11	ELECT	47uF	20%	50V (DA4ES/DA7ES)
C478	1-119-827-11	ELECT	47uF	20%	50V (VA333ES)
C478	1-128-860-11	ELECT	47uF	20%	50V (DA4ES/DA7ES)
C481	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C482	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C483	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C484	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C485	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C486	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C487	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C488	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C490	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C491	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C493	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C494	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C496	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C497	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C498	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C499	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C500	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C501	1-128-858-11	ELECT	22uF	20%	50V (DA7ES)
C502	1-128-858-11	ELECT	22uF	20%	50V (DA7ES)
C503	1-137-505-11	MYLAR	220PF	5%	50V (DA7ES)
C504	1-137-505-11	MYLAR	220PF	5%	50V (DA7ES)
C505	1-128-832-11	ELECT	220uF	20%	10V (DA7ES)
C506	1-128-832-11	ELECT	220uF	20%	10V (DA7ES)
C507	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V (DA7ES)
C508	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V (DA7ES)
C509	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V (DA7ES)
C511	1-128-858-11	ELECT	22uF	20%	50V (DA7ES)
C512	1-128-858-11	ELECT	22uF	20%	50V (DA7ES)
C551	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C552	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C553	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C554	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C555	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C555	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C556	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C556	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)

< CONNECTOR >

CNP401	1-784-929-11	PIN, CONNECTOR 14P
CNP402	1-784-774-11	CONNECTOR, FFC 13P
CNP403	1-784-921-11	PIN, CONNECTOR 4P
CNP408	1-784-929-11	PIN, CONNECTOR 14P

< DIODE >

D401	8-719-988-61	DIODE 1SS355TE-17
D404	8-719-988-61	DIODE 1SS355TE-17
D405	8-719-988-61	DIODE 1SS355TE-17
D406	8-719-988-61	DIODE 1SS355TE-17
D407	8-719-988-61	DIODE 1SS355TE-17
D408	8-719-988-61	DIODE 1SS355TE-17 (DA7ES)

E-VOL

Ref. No.	Part No.	Description			Remark
		< FERRITE BEAD >			
FB401	1-469-152-11	FERRITE, EMI (SMD)			
		< IC >			
IC401	8-759-663-90	IC ADM3222ARU-REEL			
IC402	8-759-835-79	IC TC9274N-016			
IC403	6-702-387-01	IC CXD9725M			
IC404	6-702-387-01	IC CXD9725M			
IC405	6-702-387-01	IC CXD9725M			
IC406	6-702-387-01	IC CXD9725M			
IC407	8-759-711-85	IC NJM4580E-D			
IC408	8-759-711-85	IC NJM4580E-D			
IC409	8-759-711-85	IC NJM4580E-D			
IC410	8-759-711-85	IC NJM4580E-D			
IC411	8-759-835-76	IC TC94A07P (DA7ES)			
IC412	8-759-711-85	IC NJM4580E-D (DA7ES)			
IC413	8-759-711-85	IC NJM4580E-D			
IC414	8-759-711-85	IC NJM4580E-D			
IC415	8-759-711-85	IC NJM4580E-D			
IC416	8-759-711-85	IC NJM4580E-D			
IC551	8-759-590-10	IC TC9273F-012(EL)			
IC552	8-759-711-85	IC NJM4580E-D			
IC553	8-759-711-85	IC NJM4580E-D			
		< JACK >			
J401	1-793-345-21	JACK, PIN 6P (MULTI CHANNEL INPUT 2)			
J402	1-784-934-11	JACK, PIN 4P (MULTI CHANNEL INPUT 1, FRONT/SURROUND)			
J403	1-815-520-11	JACK, PIN 4P (MULTI CHANNEL INPUT 1, SURR BACK/CENTER/SUB WOOFER)			
J404	1-784-934-11	JACK, PIN 4P (PRE OUT,FRONT/SURROUND)			
J405	1-815-520-11	JACK, PIN 4P (PRE OUT, SURR BACK/CENTER/SUB WOOFER)			
J406	1-774-822-21	JACK, PIN 2P (PRE OUT,3RD) (DA7ES)			
J407	1-815-737-11	CONNECTOR, (D) SUB 9P (RS232C)			
		< TRANSISTOR >			
Q401	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q404	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q405	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q406	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q407	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q408	8-729-230-49	TRANSISTOR 2SC2712-YG (DA7ES)			
		< RESISTOR >			
R401	1-216-246-00	RES-CHIP	100K	2% 1/8W (DA4ES/DA7ES)	
R401	1-260-020-11	CARBON MELF	100K	2% 1/8W (VA333ES)	
R402	1-216-013-00	METAL CHIP	33	5% 1/10W	
R403	1-216-013-00	METAL CHIP	33	5% 1/10W	
R404	1-216-013-00	METAL CHIP	33	5% 1/10W	
R405	1-216-013-00	METAL CHIP	33	5% 1/10W	
R406	1-216-013-00	METAL CHIP	33	5% 1/10W	
R407	1-216-013-00	METAL CHIP	33	5% 1/10W	
R408	1-216-013-00	METAL CHIP	33	5% 1/10W	
R409	1-216-013-00	METAL CHIP	33	5% 1/10W	
R410	1-216-214-00	RES-CHIP	4.7K	2% 1/8W (DA4ES/DA7ES)	
R410	1-260-004-11	CARBON MELF	4.7K	2% 1/8W (VA333ES)	
R411	1-216-246-00	RES-CHIP	100K	2% 1/8W (DA4ES/DA7ES)	
R411	1-260-020-11	CARBON MELF	100K	2% 1/8W (VA333ES)	
R412	1-216-214-00	RES-CHIP	4.7K	2% 1/8W (DA4ES/DA7ES)	
R412	1-260-004-11	CARBON MELF	4.7K	2% 1/8W (VA333ES)	
R413	1-216-174-00	RES-CHIP	100	2% 1/8W (DA4ES/DA7ES)	
R413	1-259-983-11	CARBON MELF	100	2% 1/8W (VA333ES)	
R414	1-216-174-00	RES-CHIP	100	2% 1/8W (DA4ES/DA7ES)	
R414	1-259-983-11	CARBON MELF	100	2% 1/8W (VA333ES)	
R415	1-216-214-00	RES-CHIP	4.7K	2% 1/8W (DA4ES/DA7ES)	
R415	1-260-004-11	CARBON MELF	4.7K	2% 1/8W (VA333ES)	
R416	1-216-214-00	RES-CHIP	4.7K	2% 1/8W (DA4ES/DA7ES)	
R416	1-260-004-11	CARBON MELF	4.7K	2% 1/8W (VA333ES)	
R417	1-216-174-00	RES-CHIP	100	2% 1/8W (DA4ES/DA7ES)	
R417	1-259-983-11	CARBON MELF	100	2% 1/8W (VA333ES)	
R418	1-216-174-00	RES-CHIP	100	2% 1/8W (DA4ES/DA7ES)	
R418	1-259-983-11	CARBON MELF	100	2% 1/8W (VA333ES)	
R419	1-216-214-00	RES-CHIP	4.7K	2% 1/8W (DA4ES/DA7ES)	
R419	1-260-004-11	CARBON MELF	4.7K	2% 1/8W (VA333ES)	
R420	1-216-214-00	RES-CHIP	4.7K	2% 1/8W (DA4ES/DA7ES)	
R420	1-260-004-11	CARBON MELF	4.7K	2% 1/8W (VA333ES)	
R421	1-216-246-00	RES-CHIP	100K	2% 1/8W (DA4ES/DA7ES)	
R421	1-260-020-11	CARBON MELF	100K	2% 1/8W (VA333ES)	
R422	1-216-174-00	RES-CHIP	100	2% 1/8W (DA4ES/DA7ES)	
R422	1-259-983-11	CARBON MELF	100	2% 1/8W (VA333ES)	
R423	1-216-174-00	RES-CHIP	100	2% 1/8W (DA4ES/DA7ES)	
R423	1-259-983-11	CARBON MELF	100	2% 1/8W (VA333ES)	
R424	1-216-214-00	RES-CHIP	4.7K	2% 1/8W (DA4ES/DA7ES)	
R424	1-260-004-11	CARBON MELF	4.7K	2% 1/8W (VA333ES)	
R425	1-216-214-00	RES-CHIP	4.7K	2% 1/8W (DA4ES/DA7ES)	

Ref. No.	Part No.	Description			Remark
R425	1-260-004-11	CARBON MELF	4.7K	2%	1/8W (VA333ES)
R426	1-216-174-00	RES-CHIP	100	2%	1/8W (DA4ES/DA7ES)
R426	1-259-983-11	CARBON MELF	100	2%	1/8W (VA333ES)
R427	1-216-174-00	RES-CHIP	100	2%	1/8W (DA4ES/DA7ES)
R427	1-259-983-11	CARBON MELF	100	2%	1/8W (VA333ES)
R428	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R428	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R429	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R429	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R430	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R430	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R431	1-216-246-00	RES-CHIP	100K	2%	1/8W (DA4ES/DA7ES)
R431	1-260-020-11	CARBON MELF	100K	2%	1/8W (VA333ES)
R432	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R432	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R433	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R433	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R434	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R434	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R435	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R435	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R436	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R436	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R437	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R437	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R438	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R438	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R439	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R439	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R440	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R440	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R441	1-216-246-00	RES-CHIP	100K	2%	1/8W (DA4ES/DA7ES)
R441	1-260-020-11	CARBON MELF	100K	2%	1/8W (VA333ES)
R442	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R442	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R443	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R443	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R444	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R444	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R445	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R445	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R446	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R446	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R447	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R447	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R448	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R448	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R449	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R449	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R450	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R450	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R451	1-216-246-00	RES-CHIP	100K	2%	1/8W (DA4ES/DA7ES)
R451	1-260-020-11	CARBON MELF	100K	2%	1/8W (VA333ES)
R452	1-216-025-11	RES-CHIP	100	5%	1/10W
R453	1-216-025-11	RES-CHIP	100	5%	1/10W
R454	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R454	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R455	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R455	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R456	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R456	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R457	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R457	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)

E-VOL

Ref. No.	Part No.	Description			Remark
R458	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R458	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R459	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R459	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R460	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R460	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R461	1-216-246-00	RES-CHIP	100K	2%	1/8W (DA4ES/DA7ES)
R461	1-260-020-11	CARBON MELF	100K	2%	1/8W (VA333ES)
R462	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R462	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R463	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R463	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R464	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA7ES)
R465	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA7ES)
R466	1-249-393-11	CARBON	10	5%	1/4W (DA7ES)
R467	1-216-073-00	RES-CHIP	10K	5%	1/10W (DA7ES)
R468	1-216-065-11	RES-CHIP	4.7K	5%	1/10W (DA7ES)
R469	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA7ES)
R470	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA7ES)
R471	1-216-246-00	RES-CHIP	100K	2%	1/8W (DA4ES/DA7ES)
R471	1-260-020-11	CARBON MELF	100K	2%	1/8W (VA333ES)
R473	1-216-097-11	RES-CHIP	100K	5%	1/10W (DA7ES)
R474	1-216-097-11	RES-CHIP	100K	5%	1/10W (DA7ES)
R477	1-216-246-00	RES-CHIP	100K	2%	1/8W (DA7ES)
R478	1-216-246-00	RES-CHIP	100K	2%	1/8W (DA7ES)
R479	1-216-013-00	METAL CHIP	33	5%	1/10W (DA7ES)
R480	1-216-013-00	METAL CHIP	33	5%	1/10W (DA7ES)
R481	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R482	1-216-073-00	RES-CHIP	10K	5%	1/10W
R483	1-249-393-11	CARBON	10	5%	1/4W
R484	1-208-571-11	RES-CHIP	68K	2%	1/8W (DA7ES)
R485	1-208-571-11	RES-CHIP	68K	2%	1/8W (DA7ES)
R486	1-216-174-00	RES-CHIP	100	2%	1/8W (DA7ES)
R487	1-216-174-00	RES-CHIP	100	2%	1/8W (DA7ES)
R488	1-216-214-00	RES-CHIP	4.7K	2%	1/8W (DA7ES)
R489	1-216-214-00	RES-CHIP	4.7K	2%	1/8W (DA7ES)
R490	1-216-097-11	RES-CHIP	100K	5%	1/10W
R491	1-216-097-11	RES-CHIP	100K	5%	1/10W
R492	1-216-097-11	RES-CHIP	100K	5%	1/10W
R493	1-216-097-11	RES-CHIP	100K	5%	1/10W
R494	1-216-013-00	METAL CHIP	33	5%	1/10W
R495	1-216-013-00	METAL CHIP	33	5%	1/10W
R496	1-249-393-11	CARBON	10	5%	1/4W
R497	1-216-073-00	RES-CHIP	10K	5%	1/10W
R498	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R499	1-249-393-11	CARBON	10	5%	1/4W
R500	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R501	1-216-073-00	RES-CHIP	10K	5%	1/10W
R502	1-249-393-11	CARBON	10	5%	1/4W
R503	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R504	1-216-073-00	RES-CHIP	10K	5%	1/10W
R505	1-249-393-11	CARBON	10	5%	1/4W
R506	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R507	1-216-073-00	RES-CHIP	10K	5%	1/10W
R508	1-208-581-41	RES-CHIP	180K	2%	1/8W (DA4ES/DA7ES)
R508	1-260-023-11	CARBON MELF	180K	2%	1/8W (VA333ES)
R509	1-208-581-41	RES-CHIP	180K	2%	1/8W (DA4ES/DA7ES)
R509	1-260-023-11	CARBON MELF	180K	2%	1/8W (VA333ES)
R510	1-208-571-11	RES-CHIP	68K	2%	1/8W (DA4ES/DA7ES)
R510	1-260-018-11	CARBON MELF	68K	2%	1/8W (VA333ES)
R511	1-208-571-11	RES-CHIP	68K	2%	1/8W (DA4ES/DA7ES)
R511	1-260-018-11	CARBON MELF	68K	2%	1/8W (VA333ES)
R512	1-208-571-11	RES-CHIP	68K	2%	1/8W (DA4ES/DA7ES)
R512	1-260-018-11	CARBON MELF	68K	2%	1/8W (VA333ES)
R513	1-208-571-11	RES-CHIP	68K	2%	1/8W (DA4ES/DA7ES)
R513	1-260-018-11	CARBON MELF	68K	2%	1/8W (VA333ES)
R514	1-208-571-11	RES-CHIP	68K	2%	1/8W (DA4ES/DA7ES)
R514	1-260-018-11	CARBON MELF	68K	2%	1/8W (VA333ES)
R515	1-208-571-11	RES-CHIP	68K	2%	1/8W (DA4ES/DA7ES)
R515	1-260-018-11	CARBON MELF	68K	2%	1/8W (VA333ES)
R516	1-208-571-11	RES-CHIP	68K	2%	1/8W (DA4ES/DA7ES)
R516	1-260-018-11	CARBON MELF	68K	2%	1/8W (VA333ES)
R517	1-208-571-11	RES-CHIP	68K	2%	1/8W (DA4ES/DA7ES)

Ref. No.	Part No.	Description			Remark
R517	1-260-018-11	CARBON MELF	68K	2%	1/8W (VA333ES)
R518	1-208-581-41	RES-CHIP	180K	2%	1/8W (DA4ES/DA7ES)
R518	1-260-023-11	CARBON MELF	180K	2%	1/8W (VA333ES)
R519	1-208-581-41	RES-CHIP	180K	2%	1/8W (DA4ES/DA7ES)
R519	1-260-023-11	CARBON MELF	180K	2%	1/8W (VA333ES)
R520	1-208-581-41	RES-CHIP	180K	2%	1/8W (DA4ES/DA7ES)
R520	1-260-023-11	CARBON MELF	180K	2%	1/8W (VA333ES)
R521	1-208-581-41	RES-CHIP	180K	2%	1/8W (DA4ES/DA7ES)
R521	1-260-023-11	CARBON MELF	180K	2%	1/8W (VA333ES)
R522	1-208-581-41	RES-CHIP	180K	2%	1/8W (DA4ES/DA7ES)
R522	1-260-023-11	CARBON MELF	180K	2%	1/8W (VA333ES)
R523	1-208-581-41	RES-CHIP	180K	2%	1/8W (DA4ES/DA7ES)
R523	1-260-023-11	CARBON MELF	180K	2%	1/8W (VA333ES)
R551	1-216-214-00	RES-CHIP	4.7K	2%	1/8W (DA4ES/DA7ES)
R551	1-260-004-11	CARBON MELF	4.7K	2%	1/8W (VA333ES)
R552	1-208-810-11	RES-CHIP	15K	2%	1/8W (DA4ES/DA7ES)
R552	1-260-010-11	CARBON MELF	15K	2%	1/8W (VA333ES)
R553	1-216-214-00	RES-CHIP	4.7K	2%	1/8W (DA4ES/DA7ES)
R553	1-260-004-11	CARBON MELF	4.7K	2%	1/8W (VA333ES)
R554	1-208-810-11	RES-CHIP	15K	2%	1/8W (DA4ES/DA7ES)
R554	1-260-010-11	CARBON MELF	15K	2%	1/8W (VA333ES)
R555	1-216-222-00	RES-CHIP	10K	2%	1/8W (DA4ES/DA7ES)
R555	1-260-008-11	CARBON MELF	10K	2%	1/8W (VA333ES)
R556	1-216-222-00	RES-CHIP	10K	2%	1/8W (DA4ES/DA7ES)
R556	1-260-008-11	CARBON MELF	10K	2%	1/8W (VA333ES)
R557	1-216-013-00	METAL CHIP	33	5%	1/10W
R558	1-216-013-00	METAL CHIP	33	5%	1/10W
R559	1-216-222-00	RES-CHIP	10K	2%	1/8W (DA4ES/DA7ES)
R559	1-260-008-11	CARBON MELF	10K	2%	1/8W (VA333ES)
R560	1-216-222-00	RES-CHIP	10K	2%	1/8W (DA4ES/DA7ES)
R560	1-260-008-11	CARBON MELF	10K	2%	1/8W (VA333ES)
R561	1-216-222-00	RES-CHIP	10K	2%	1/8W (DA4ES/DA7ES)
R561	1-260-008-11	CARBON MELF	10K	2%	1/8W (VA333ES)
R562	1-216-222-00	RES-CHIP	10K	2%	1/8W (DA4ES/DA7ES)
R562	1-260-008-11	CARBON MELF	10K	2%	1/8W (VA333ES)
R563	1-216-222-00	RES-CHIP	10K	2%	1/8W (DA4ES/DA7ES)
R563	1-260-008-11	CARBON MELF	10K	2%	1/8W (VA333ES)
R564	1-216-222-00	RES-CHIP	10K	2%	1/8W (DA4ES/DA7ES)
R564	1-260-008-11	CARBON MELF	10K	2%	1/8W (VA333ES)
R565	1-208-810-11	RES-CHIP	15K	2%	1/8W (DA4ES/DA7ES)
R565	1-260-010-11	CARBON MELF	15K	2%	1/8W (VA333ES)
R566	1-208-810-11	RES-CHIP	15K	2%	1/8W (DA4ES/DA7ES)
R566	1-260-010-11	CARBON MELF	15K	2%	1/8W (VA333ES)

< RELAY >

RY401	1-515-614-11	RELAY
RY404	1-755-484-11	RELAY
RY405	1-755-484-11	RELAY
RY406	1-755-484-11	RELAY
RY407	1-515-614-11	RELAY
RY408	1-755-484-11	RELAY (DA7ES)

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	A-4728-904-A	F-SPTM BOARD, COMPLETE (VA333ES)
	A-4728-940-A	F-SPTM BOARD, COMPLETE (DA4ES/DA7ES)

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< CAPACITOR >

C511	1-137-150-11	MYLAR	0.01uF	5%	50V
C561	1-137-150-11	MYLAR	0.01uF	5%	50V
C563	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C564	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C565	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C566	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C694	1-137-150-11	MYLAR	0.01uF	5%	50V
C695	1-163-133-00	CERAMIC CHIP	470PF	5%	50V

< CONNECTOR >

CNP506	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P
CNP507	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P
CNP651	1-564-723-11	PIN, CONNECTOR (SMALL TYPE) 7P
CNS506	1-784-776-11	CONNECTOR, FFC 15P

F-SPTM **FUNCTION** **HP** **INPUT**

Ref. No.	Part No.	Description			Remark
		< DIODE >			
D540	8-719-988-61	DIODE 1SS355TE-17			
D541	8-719-988-61	DIODE 1SS355TE-17			
D542	8-719-988-61	DIODE 1SS355TE-17			
D543	8-719-988-61	DIODE 1SS355TE-17			
D544	8-719-988-61	DIODE 1SS355TE-17			
D545	8-719-988-61	DIODE 1SS355TE-17			
D546	8-719-988-61	DIODE 1SS355TE-17			
D598	8-719-988-61	DIODE 1SS355TE-17			
D607	8-719-988-61	DIODE 1SS355TE-17			
D667	8-719-988-61	DIODE 1SS355TE-17			
		< COIL >			
L501	1-422-009-13	COIL, AIR-CORE			
L551	1-422-009-13	COIL, AIR-CORE			
L651	1-422-009-13	COIL, AIR-CORE			
		< TRANSISTOR >			
Q598	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q611	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q621	8-729-230-49	TRANSISTOR 2SC2712-YG			
		< RESISTOR >			
R511	1-249-389-11	CARBON	4.7	5%	1/4W
R512	1-249-393-11	CARBON	10	5%	1/4W
R561	1-249-389-11	CARBON	4.7	5%	1/4W
R562	1-249-393-11	CARBON	10	5%	1/4W
R584	1-249-393-11	CARBON	10	5%	1/4W
R585	1-216-073-00	RES-CHIP	10K	5%	1/10W
R586	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R589	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R617	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R632	1-216-073-00	RES-CHIP	10K	5%	1/10W
R633	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R634	1-249-393-11	CARBON	10	5%	1/4W
R642	1-216-073-00	RES-CHIP	10K	5%	1/10W
R644	1-249-393-11	CARBON	10	5%	1/4W
R645	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R655	1-249-389-11	CARBON	4.7	5%	1/4W
R683	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R698	1-249-393-11	CARBON	10	5%	1/4W
R733	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
		< RELAY >			
RY503	1-515-920-11	RELAY (24V)			
RY601	1-515-920-11	RELAY (24V)			
RY661	1-515-920-11	RELAY (24V)			
		< TERMINAL >			
TM501	1-694-935-11	TERMINAL BOARD (8P) (SPEAKERS,FRONT A/B) (DA4ES/DA7ES)			
TM501	1-694-935-21	TERMINAL BOARD (8P) (SPEAKERS,FRONT A/B) (VA333ES)			
TM601	1-694-910-11	TERMINAL BOARD (2P) (SPEAKERS,CENTER) (DA4ES/DA7ES)			
TM601	1-694-910-21	TERMINAL BOARD (2P) (SPEAKERS,CENTER) (VA333ES)			
**********					
	1-685-487-11	FUNCTION BOARD			
		**********			
		< CONNECTOR >			
CNP106	1-784-922-11	PIN, CONNECTOR 5P			
		< DIODE >			
D116	8-719-032-98	LED SEL5820A (AUDIO SPLIT)			
		< RESISTOR >			
R165	1-216-029-00	METAL CHIP	150	5%	1/10W
R166	1-216-049-11	RES-CHIP	1K	5%	1/10W
R167	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
		< ROTARY ENCODER >			
RV101	1-467-808-21	ENCODER, ROTARY (FUNCTION)			
		< SWITCH >			
S132	1-771-349-21	SWITCH, KEYBOARD (AUDIO SPLIT)			
S133	1-771-349-21	SWITCH, KEYBOARD (INPUT MODE)			
S134	1-771-349-21	SWITCH, KEYBOARD (MUTING)			
**********					
	1-685-488-11	HP BOARD			
		**********			
		< CAPACITOR >			
C120	1-163-137-00	CERAMIC CHIP	680PF	5%	50V (VA333ES)
C121	1-163-137-00	CERAMIC CHIP	680PF	5%	50V (VA333ES)
		< CONNECTOR >			
CNP109	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			
CNP111	1-779-978-11	PIN, CONNECTOR 3P			
		< JACK >			
J101	1-815-313-21	JACK (PHONES)			
**********					
	A-4728-880-A	INPUT BOARD, COMPLETE (DA4ES)			
	A-4728-893-A	INPUT BOARD, COMPLETE (VA333ES)			
	A-4728-915-A	INPUT BOARD, COMPLETE (DA7ES)			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3 (DA4ES/DA7ES)			
		< CAPACITOR >			
C301	1-119-821-11	ELECT	2.2uF	20%	50V
C302	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C303	1-128-832-11	ELECT	220uF	20%	10V
C304	1-125-896-11	MYLAR	0.0091uF	5%	50V
C305	1-136-159-00	MYLAR	0.033uF	5%	50V
C306	1-126-045-11	ELECT	2.2uF	20%	50V
C308	1-163-001-11	CERAMIC CHIP	220PF	10%	50V

INPUT

Ref. No.	Part No.	Description			Remark
C309	1-163-033-11	CERAMIC CHIP	0.022uF		50V
C310	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C311	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C312	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C313	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C314	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C315	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C316	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C317	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C318	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C319	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C320	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C321	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C323	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C324	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C325	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C325	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C326	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C326	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C327	1-128-858-11	ELECT	22uF	20%	50V (DA7ES)
C328	1-128-858-11	ELECT	22uF	20%	50V (DA7ES)
C329	1-119-805-21	ELECT	2200uF	20%	25V (VA333ES)
C329	1-127-728-51	ELECT	2200uF	20%	25V (DA4ES/DA7ES)
C330	1-119-805-21	ELECT	2200uF	20%	25V (VA333ES)
C330	1-127-728-51	ELECT	2200uF	20%	25V (DA4ES/DA7ES)
C331	1-128-832-11	ELECT	220uF	20%	10V (DA4ES/DA7ES)
C332	1-137-505-11	MYLAR	220PF	5%	50V (DA4ES/DA7ES)
C333	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C335	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V (DA4ES/DA7ES)
C341	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V (VA333ES)
C342	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V (VA333ES)
C343	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V (VA333ES)
C344	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V (VA333ES)
C345	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C346	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C347	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C348	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C349	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C350	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C351	1-119-821-11	ELECT	2.2uF	20%	50V
C352	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C353	1-128-832-11	ELECT	220uF	20%	10V
C354	1-125-896-11	MYLAR	0.0091uF	5%	50V
C355	1-136-159-00	MYLAR	0.033uF	5%	50V
C356	1-126-045-11	ELECT	2.2uF	20%	50V
C357	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V (VA333ES)
C358	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C359	1-163-033-11	CERAMIC CHIP	0.022uF		50V
C360	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C361	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C362	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C363	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C364	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C365	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C366	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C367	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C368	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C369	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C370	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C371	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (VA333ES)
C373	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C374	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C375	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C375	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C376	1-119-825-41	ELECT	22uF	20%	50V (VA333ES)
C376	1-128-858-11	ELECT	22uF	20%	50V (DA4ES/DA7ES)
C377	1-128-858-11	ELECT	22uF	20%	50V (DA7ES)
C378	1-128-858-11	ELECT	22uF	20%	50V (DA7ES)
C379	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C380	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C381	1-128-832-11	ELECT	220uF	20%	10V (DA4ES/DA7ES)

INPUT

Ref. No.	Part No.	Description			Remark
C382	1-137-505-11	MYLAR	220PF	5% 50V	(DA4ES/DA7ES)
C383	1-128-858-11	ELECT	22uF	20% 50V	(DA4ES/DA7ES)
C384	1-163-021-11	CERAMIC CHIP	0.01uF	10% 50V	(DA4ES/DA7ES)
C385	1-164-161-11	CERAMIC CHIP	0.0022uF	10% 100V	(DA4ES/DA7ES)
C391	1-164-161-11	CERAMIC CHIP	0.0022uF	10% 100V	(DA7ES)
C392	1-164-161-11	CERAMIC CHIP	0.0022uF	10% 100V	(DA7ES)
C393	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	(DA7ES)
C394	1-136-169-00	MYLAR	0.22uF	5% 50V	
C395	1-136-169-00	MYLAR	0.22uF	5% 50V	
C396	1-119-805-21	ELECT	2200uF	20% 25V	(VA333ES)
C396	1-127-728-51	ELECT	2200uF	20% 25V	(DA4ES/DA7ES)
C397	1-119-805-21	ELECT	2200uF	20% 25V	(VA333ES)
C397	1-127-728-51	ELECT	2200uF	20% 25V	(DA4ES/DA7ES)
C398	1-163-038-00	CERAMIC CHIP	0.1uF	25V	(DA7ES)
C399	1-119-803-11	ELECT	470uF	20% 25V	(VA333ES)
C399	1-127-726-11	ELECT	470uF	20% 25V	(DA4ES/DA7ES)
		< CONNECTOR >			
CN301	1-784-921-11	PIN, CONNECTOR 4P			
CNP302	1-784-921-11	PIN, CONNECTOR 4P			
CNP303	1-784-923-11	PIN, CONNECTOR 7P			
CNP304	1-784-928-11	PIN, CONNECTOR 13P			
CNP305	1-779-978-11	PIN, CONNECTOR 3P			
CNP306	1-564-320-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CNP307	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
		< DIODE >			
D301	8-719-988-61	DIODE 1SS355TE-17 (DA4ES/DA7ES)			
		< TERMINAL >			
* EPT301	1-537-738-21	TERMINAL, EARTH			
		< IC >			
IC301	8-759-711-85	IC NJM4580E-D			
IC302	8-759-835-78	IC TC9274N-015			
IC303	8-759-835-78	IC TC9274N-015			
IC304	8-759-582-66	IC TC9273N-013 (DA7ES)			
IC305	8-759-710-59	IC NJM4580D-D (DA4ES/DA7ES)			
IC306	8-759-711-85	IC NJM4580E-D			
IC307	8-759-711-85	IC NJM4580E-D (DA7ES)			
IC308	8-759-231-59	IC TA7815S			
IC309	8-759-245-87	IC TA79015S			
IC310	8-759-231-58	IC TA7812S			
IC311	8-759-835-76	IC TC94A07P (DA4ES/DA7ES)			
IC312	8-759-231-59	IC TA7815S			
IC313	8-759-245-87	IC TA79015S			
IC314	8-759-711-85	IC NJM4580E-D (DA4ES/DA7ES)			
		< JACK >			
J301	1-778-517-11	JACK, PIN 6P (PHONO,CD/SACD,MD/DAT OUT)			
J302	1-778-517-11	JACK, PIN 6P (MD/DAT IN,TAPE)			
J303	1-784-934-11	JACK, PIN 4P (TV/SAT,DVD/LD)			
J304	1-784-934-11	JACK, PIN 4P (VIDEO 2)			
J305	1-778-517-11	JACK, PIN 6P (VIDEO 1,2ND ROOM)			(DA4ES/DA7ES)
J305	1-784-934-11	JACK, PIN 4P (VIDEO 1) (VA333ES)			
		< TRANSISTOR >			
Q301	8-729-230-49	TRANSISTOR 2SC2712-YG (DA4ES/DA7ES)			
		< RESISTOR >			
R301	1-208-453-41	RES-CHIP	4.7K	2% 1/10W	
R302	1-216-699-11	METAL CHIP	100K	0.5% 1/10W	
R303	1-216-697-11	METAL CHIP	82K	0.5% 1/10W	
R304	1-216-633-11	METAL CHIP	180	0.5% 1/10W	
R305	1-216-673-11	METAL CHIP	8.2K	0.5% 1/10W	
R306	1-216-699-11	METAL CHIP	100K	0.5% 1/10W	
R307	1-216-627-11	METAL CHIP	100	0.5% 1/10W	
R308	1-216-699-11	METAL CHIP	100K	0.5% 1/10W	
R309	1-208-774-11	RES-CHIP	470	2% 1/10W	
R310	1-208-782-11	RES-CHIP	1K	2% 1/8W	(DA4ES/DA7ES)
R310	1-259-995-11	CARBON MELF	1K	2% 1/8W	(VA333ES)
R311	1-208-782-11	RES-CHIP	1K	2% 1/8W	(DA4ES/DA7ES)
R311	1-259-995-11	CARBON MELF	1K	2% 1/8W	(VA333ES)
R312	1-208-782-11	RES-CHIP	1K	2% 1/8W	(DA4ES/DA7ES)
R312	1-259-995-11	CARBON MELF	1K	2% 1/8W	(VA333ES)
R313	1-208-782-11	RES-CHIP	1K	2% 1/8W	(DA4ES/DA7ES)
R313	1-259-995-11	CARBON MELF	1K	2% 1/8W	(VA333ES)
R314	1-208-782-11	RES-CHIP	1K	2% 1/8W	(DA4ES/DA7ES)
R314	1-259-995-11	CARBON MELF	1K	2% 1/8W	(VA333ES)
R315	1-208-782-11	RES-CHIP	1K	2% 1/8W	(DA4ES/DA7ES)
R315	1-259-995-11	CARBON MELF	1K	2% 1/8W	(VA333ES)
R316	1-208-782-11	RES-CHIP	1K	2% 1/8W	(DA4ES/DA7ES)
R316	1-259-995-11	CARBON MELF	1K	2% 1/8W	(VA333ES)
R317	1-216-206-00	RES-CHIP	2.2K	2% 1/8W	(DA4ES/DA7ES)
R317	1-259-999-11	CARBON MELF	2.2K	2% 1/8W	(VA333ES)
R318	1-208-782-11	RES-CHIP	1K	2% 1/8W	(DA4ES/DA7ES)

Ref. No.	Part No.	Description			Remark
R318	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R319	1-216-206-00	RES-CHIP	2.2K	2%	1/8W (DA4ES/DA7ES)
R319	1-259-999-11	CARBON MELF	2.2K	2%	1/8W (VA333ES)
R320	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R320	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R321	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R322	1-216-214-00	RES-CHIP	4.7K	2%	1/8W (DA4ES/DA7ES)
R323	1-216-627-11	METAL CHIP	100	0.5%	1/10W (DA4ES/DA7ES)
R324	1-216-246-00	RES-CHIP	100K	2%	1/8W (DA4ES/DA7ES)
R325	1-216-246-00	RES-CHIP	100K	2%	1/8W (DA4ES/DA7ES)
R326	1-208-581-41	RES-CHIP	180K	2%	1/8W (DA7ES)
R326	1-216-250-11	RES-CHIP	150K	2%	1/8W (DA4ES)
R327	1-208-581-41	RES-CHIP	180K	2%	1/8W (DA7ES)
R327	1-216-250-11	RES-CHIP	150K	2%	1/8W (DA4ES)
R327	1-260-020-11	CARBON MELF	100K	2%	1/8W (VA333ES)
R328	1-208-583-11	RES-CHIP	220K	2%	1/8W (DA4ES/DA7ES)
R328	1-216-254-00	CARBON MELF	220K	2%	1/8W (VA333ES)
R329	1-208-581-41	RES-CHIP	180K	2%	1/8W (DA7ES)
R330	1-208-583-11	RES-CHIP	220K	2%	1/8W (DA7ES)
R331	1-216-013-00	METAL CHIP	33	5%	1/10W
R332	1-216-013-00	METAL CHIP	33	5%	1/10W
R333	1-216-013-00	METAL CHIP	33	5%	1/10W
R334	1-216-013-00	METAL CHIP	33	5%	1/10W
R335	1-216-013-00	METAL CHIP	33	5%	1/10W (DA7ES)
R336	1-216-013-00	METAL CHIP	33	5%	1/10W (DA7ES)
R339	1-216-013-00	METAL CHIP	33	5%	1/10W (DA4ES/DA7ES)
R340	1-216-097-11	RES-CHIP	100K	5%	1/10W (DA4ES/DA7ES)
R341	1-216-246-00	RES-CHIP	100K	2%	1/8W (DA4ES/DA7ES)
R345	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R351	1-208-453-41	RES-CHIP	4.7K	2%	1/10W
R352	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R353	1-216-697-11	METAL CHIP	82K	0.5%	1/10W
R354	1-216-633-11	METAL CHIP	180	0.5%	1/10W
R355	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R356	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R357	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R358	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R359	1-208-774-11	RES-CHIP	470	2%	1/10W
R360	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R360	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R361	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R361	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R362	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R362	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R363	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R363	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R364	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R364	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R365	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R365	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R366	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R366	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R367	1-216-206-00	RES-CHIP	2.2K	2%	1/8W (DA4ES/DA7ES)
R367	1-259-999-11	CARBON MELF	2.2K	2%	1/8W (VA333ES)
R368	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R368	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R369	1-216-206-00	RES-CHIP	2.2K	2%	1/8W (DA4ES/DA7ES)
R369	1-259-999-11	CARBON MELF	2.2K	2%	1/8W (VA333ES)
R370	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R370	1-259-995-11	CARBON MELF	1K	2%	1/8W (VA333ES)
R371	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
R372	1-216-214-00	RES-CHIP	4.7K	2%	1/8W (DA4ES/DA7ES)
R373	1-216-627-11	METAL CHIP	100	0.5%	1/10W (DA4ES/DA7ES)
R374	1-216-246-00	RES-CHIP	100K	2%	1/8W (DA4ES/DA7ES)
R375	1-216-246-00	RES-CHIP	100K	2%	1/8W (DA4ES/DA7ES)
R376	1-208-581-41	RES-CHIP	180K	2%	1/8W (DA7ES)
R376	1-216-250-11	RES-CHIP	150K	2%	1/8W (DA4ES)
R377	1-208-581-41	RES-CHIP	180K	2%	1/8W (DA7ES)
R377	1-216-250-11	RES-CHIP	150K	2%	1/8W (DA4ES)

INPUT **LED** **M-BUS** **S-SPTM**

Ref. No.	Part No.	Description			Remark
R377	1-260-020-11	CARBON MELF	100K	2%	1/8W (VA333ES)
R378	1-208-583-11	RES-CHIP	220K	2%	1/8W (DA4ES/DA7ES)
R378	1-216-254-00	CARBON MELF	220K	2%	1/8W (VA333ES)
R379	1-208-581-41	RES-CHIP	180K	2%	1/8W (DA7ES)
R380	1-208-583-11	RES-CHIP	220K	2%	1/8W (DA7ES)
R389	1-216-013-00	METAL CHIP	33	5%	1/10W (DA4ES/DA7ES)
R390	1-216-097-11	RES-CHIP	100K	5%	1/10W (DA4ES/DA7ES)
R391	1-216-246-00	RES-CHIP	100K	2%	1/8W (DA4ES/DA7ES)
R392	1-249-393-11	CARBON	10	5%	1/4W (DA4ES/DA7ES)
R393	1-216-073-00	RES-CHIP	10K	5%	1/10W (DA4ES/DA7ES)
R394	1-216-065-11	RES-CHIP	4.7K	5%	1/10W (DA4ES/DA7ES)
R395	1-208-782-11	RES-CHIP	1K	2%	1/8W (DA4ES/DA7ES)
		< RELAY >			
RY301	1-755-484-11	RELAY (DA4ES/DA7ES)			
**********					
	1-685-491-11	LED BOARD			
		**********			
		< CAPACITOR >			
C118	1-165-319-11	CERAMIC CHIP	0.1uF		50V
		< CONNECTOR >			
* CN101	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
		< DIODE >			
D118	8-719-084-07	LED SEL5E20C-TP15			(MULTI CHANNEL DECODING)
		< RESISTOR >			
R114	1-216-073-00	RES-CHIP	10K	5%	1/10W
R115	1-216-022-00	METAL CHIP	75	5%	1/10W
R116	1-216-037-00	METAL CHIP	330	5%	1/10W
R144	1-216-073-00	RES-CHIP	10K	5%	1/10W
**********					
	A-4728-919-A	M-BUS BOARD, COMPLETE (DA4ES/DA7ES)			
		**********			
		< CAPACITOR >			
C215	1-119-823-11	ELECT	4.7uF	20%	50V (DA4ES/DA7ES)
C216	1-163-133-00	CERAMIC CHIP	470PF	5%	50V (DA4ES/DA7ES)
C232	1-163-133-00	CERAMIC CHIP	470PF	5%	50V (DA4ES/DA7ES)
C235	1-164-690-11	CERAMIC CHIP	0.0022uF	5%	50V (DA4ES/DA7ES)

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CNS204	1-568-826-11	CONNECTOR, FFC 7P (DA4ES/DA7ES)			
		< IC >			
IC200	8-759-470-63	IC NJM2145M-TE2 (DA4ES/DA7ES)			
		< JACK >			
J203	1-563-330-11	JACK (MONITOR IN) (DA4ES/DA7ES)			
J204	1-563-330-11	JACK (TV/SAT STATUS IN) (DA4ES/DA7ES)			
J205	1-563-330-11	JACK (DVD/LD OUT) (DA4ES/DA7ES)			
J206	1-563-330-11	JACK (VIDEO 1 OUT) (DA4ES/DA7ES)			
		< TRANSISTOR >			
Q200	8-729-027-43	TRANSISTOR DTC114EKA-T146			(DA4ES/DA7ES)
Q201	8-729-027-23	TRANSISTOR DTA114EKA-T146			(DA4ES/DA7ES)
		< RESISTOR >			
R208	1-216-049-11	RES-CHIP	1K	5%	1/10W (DA4ES/DA7ES)
R209	1-216-049-11	RES-CHIP	1K	5%	1/10W (DA4ES/DA7ES)
R210	1-216-049-11	RES-CHIP	1K	5%	1/10W (DA4ES/DA7ES)
R211	1-216-049-11	RES-CHIP	1K	5%	1/10W (DA4ES/DA7ES)
R2002	1-216-073-00	RES-CHIP	10K	5%	1/10W (DA4ES/DA7ES)
**********					
	A-4728-941-A	S-SPTM BOARD, COMPLETE (DA4ES/DA7ES)			
	A-4728-905-A	S-SPTM BOARD, COMPLETE (VA333ES)			
		**********			
		< CAPACITOR >			
C613	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C614	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C615	1-137-150-11	MYLAR	0.01uF	5%	50V
C665	1-137-150-11	MYLAR	0.01uF	5%	50V
C713	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C714	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C715	1-137-150-11	MYLAR	0.01uF	5%	50V
C765	1-137-150-11	MYLAR	0.01uF	5%	50V
		< DIODE >			
D608	8-719-988-61	DIODE 1SS355TE-17			
D657	8-719-988-61	DIODE 1SS355TE-17			
D707	8-719-988-61	DIODE 1SS355TE-17			
		< COIL >			
L601	1-422-009-13	COIL, AIR-CORE			

Ref. No.	Part No.	Description			Remark
L652	1-422-009-13	COIL, AIR-CORE			
L701	1-422-009-13	COIL, AIR-CORE			
L751	1-422-009-13	COIL, AIR-CORE			
		< TRANSISTOR >			
Q602	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q661	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q707	8-729-230-49	TRANSISTOR 2SC2712-YG			
		< RESISTOR >			
R616	1-249-393-11	CARBON	10	5%	1/4W
R618	1-216-073-00	RES-CHIP	10K	5%	1/10W
R619	1-249-393-11	CARBON	10	5%	1/4W
R631	1-249-389-11	CARBON	4.7	5%	1/4W
R666	1-249-393-11	CARBON	10	5%	1/4W
R670	1-249-389-11	CARBON	4.7	5%	1/4W
R682	1-216-073-00	RES-CHIP	10K	5%	1/10W
R684	1-249-393-11	CARBON	10	5%	1/4W
R716	1-249-393-11	CARBON	10	5%	1/4W
R731	1-249-389-11	CARBON	4.7	5%	1/4W
R732	1-216-073-00	RES-CHIP	10K	5%	1/10W
R734	1-249-393-11	CARBON	10	5%	1/4W
R766	1-249-393-11	CARBON	10	5%	1/4W
R781	1-249-389-11	CARBON	4.7	5%	1/4W
		< RELAY >			
RY651	1-515-920-11	RELAY (24V)			
RY652	1-515-920-11	RELAY (24V)			
RY702	1-515-920-11	RELAY (24V)			
		< TERMINAL >			
TM701	1-694-935-11	TERMINAL BOARD (8P) (SPEAKERS, SURROUND/SURR BACK) (DA4ES/DA7ES)			
TM701	1-694-935-21	TERMINAL BOARD (8P) (SPEAKERS, SURROUND/SURR BACK) (VA333ES)			
**********					
	A-4728-903-A	S-VIDEO BOARD, COMPLETE (AEP)			
	A-4728-938-A	S-VIDEO BOARD, COMPLETE (DA4ES/DA7ES)			
	A-4728-965-A	S-VIDEO BOARD, COMPLETE (TW,KR)			
		**********			
		< CAPACITOR >			
C128	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C217	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C218	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C219	1-119-824-11	ELECT	10uF	20%	50V
C220	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C221	1-119-824-11	ELECT	10uF	20%	50V
C222	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C223	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C224	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C225	1-119-824-11	ELECT	10uF	20%	50V
C226	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C227	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C228	1-165-319-11	CERAMIC CHIP	0.1uF		50V

Ref. No.	Part No.	Description			Remark
C229	1-119-824-11	ELECT	10uF	20%	50V
C230	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C231	1-128-834-11	ELECT	470uF	20%	10V
C234	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C236	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C237	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C239	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C241	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C242	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C243	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C244	1-119-824-11	ELECT	10uF	20%	50V
C245	1-165-319-11	CERAMIC CHIP	0.1uF		50V (AEP)
C246	1-128-840-11	ELECT	47uF	20%	16V (AEP)
C247	1-119-822-11	ELECT	3.3uF	20%	50V (AEP)
C248	1-119-824-11	ELECT	10uF	20%	50V
C249	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C251	1-119-822-11	ELECT	3.3uF	20%	50V (AEP)
C252	1-119-824-11	ELECT	10uF	20%	50V
C254	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C262	1-119-824-11	ELECT	10uF	20%	50V
C263	1-119-824-11	ELECT	10uF	20%	50V
C264	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (EXCEPT AEP)
C265	1-163-091-00	CERAMIC CHIP	8PF		50V (EXCEPT AEP)
C266	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C267	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C268	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C269	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C270	1-128-840-11	ELECT	47uF	20%	16V
C271	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C272	1-119-824-11	ELECT	10uF	20%	50V
C274	1-119-824-11	ELECT	10uF	20%	50V
C275	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C276	1-128-840-11	ELECT	47uF	20%	16V
C279	1-126-935-11	ELECT	470uF	20%	10V (EXCEPT AEP)
C301	1-126-965-11	ELECT	22uF	20%	50V (EXCEPT AEP)
C302	1-126-964-11	ELECT	10uF	20%	50V (EXCEPT AEP)
C303	1-126-964-11	ELECT	10uF	20%	50V (EXCEPT AEP)
C2001	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C2002	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C2004	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2006	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C2008	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2011	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2012	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C2013	1-165-319-11	CERAMIC CHIP	0.1uF		50V
		< CONNECTOR >			
CNP201	1-770-594-21	CONNECTOR, BOARD TO BOARD 5P (AEP)			
CNP202	1-784-774-11	CONNECTOR, FFC 13P			
* CNP204	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P			

S-VIDEO

Ref. No.	Part No.	Description	Remark
CNP220	1-766-600-21	CONNECTOR, BOARD TO BOARD 7P	(EXCEPT AEP)
CNS201	1-784-774-11	CONNECTOR, FFC 13P	
CNS203	1-568-826-11	CONNECTOR, FFC 7P (DA4ES/DA7ES)	
		< TRIMMER >	
CT203	1-141-442-91	CAP, CERAMIC TRIMMER 20PF (EXCEPT AEP)	
CT204	1-141-442-91	CAP, CERAMIC TRIMMER 20PF	
		< DIODE >	
D201	8-719-801-78	DIODE 1SS184	
D206	8-719-988-61	DIODE 1SS355TE-17	
D220	8-719-988-61	DIODE 1SS355TE-17 (EXCEPT AEP)	
		< FERRITE BEAD >	
FB202	1-469-152-11	FERRITE, EMI (SMD) (AEP)	
		< IC >	
IC202	8-759-536-24	IC NJM-2296M-TE2	
IC203	6-700-050-01	IC NJM2596M(TE2)	
IC204	8-759-822-05	IC LA7213 (AEP)	
IC205	8-759-822-05	IC LA7213 (AEP)	
IC209	6-700-367-01	IC MB90089PF-G-238-BND	
IC210	8-759-682-76	IC BA7622F-E2-A	
		< JACK >	
J207	1-563-330-11	JACK (CTRL A1 II)	
		< CONNECTOR >	
J208	1-779-801-11	CONNECTOR (ROUND TYPE) (VIDEO 1)	
J209	1-779-801-11	CONNECTOR (ROUND TYPE) (VIDEO 2)	
J210	1-779-801-11	CONNECTOR (ROUND TYPE) (TV/SAT,DVD/LD)	
		< S TERMINAL >	
J211	1-779-800-11	TERMINAL, S (MONITOR)	
		< JUMPER RESISTOR >	
JR200	1-216-296-11	SHORT CHIP 0	
JR203	1-216-296-11	SHORT CHIP 0	
JR204	1-216-296-11	SHORT CHIP 0	
JR205	1-216-296-11	SHORT CHIP 0	
JR206	1-216-296-11	SHORT CHIP 0	
JR207	1-216-296-11	SHORT CHIP 0	
JR208	1-216-296-11	SHORT CHIP 0	
JR209	1-216-296-11	SHORT CHIP 0	
JR210	1-216-296-11	SHORT CHIP 0	
JR211	1-216-296-11	SHORT CHIP 0	
JR212	1-216-296-11	SHORT CHIP 0	
		< JUMPER RESISTOR >	
JW1	1-216-295-11	SHORT CHIP 0	(VA333ES)
JW2	1-216-295-11	SHORT CHIP 0	(VA333ES)
JW3	1-216-295-11	SHORT CHIP 0	(US,CND)
		< COIL >	
L201	1-216-296-11	SHORT CHIP 0	(EXCEPT AEP)
L201	1-500-425-11	FERRITE, EMI (SMD) (AEP)	
L202	1-216-296-11	SHORT CHIP 0	(EXCEPT AEP)
L202	1-500-425-11	FERRITE, EMI (SMD) (AEP)	
L203	1-216-296-11	SHORT CHIP 0	(EXCEPT AEP)
L203	1-500-425-11	FERRITE, EMI (SMD) (AEP)	
L204	1-216-296-11	SHORT CHIP 0	(EXCEPT AEP)
L204	1-500-425-11	FERRITE, EMI (SMD) (AEP)	
L205	1-408-781-00	INDUCTOR 22uH	
		< TRANSISTOR >	
Q202	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q203	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q221	8-729-216-22	TRANSISTOR 2SA1162-G (EXCEPT AEP)	
Q222	8-729-027-43	TRANSISTOR DTC114EKA-T146 (EXCEPT AEP)	
Q223	8-729-230-49	TRANSISTOR 2SC2712-YG (EXCEPT AEP)	
Q224	8-729-216-22	TRANSISTOR 2SA1162-G (EXCEPT AEP)	
Q225	8-729-230-49	TRANSISTOR 2SC2712-YG (EXCEPT AEP)	
		< RESISTOR >	
R212	1-216-022-00	METAL CHIP 75 5% 1/10W	
R213	1-216-022-00	METAL CHIP 75 5% 1/10W	
R214	1-216-022-00	METAL CHIP 75 5% 1/10W	
R215	1-216-022-00	METAL CHIP 75 5% 1/10W	
R216	1-216-022-00	METAL CHIP 75 5% 1/10W	
R217	1-216-022-00	METAL CHIP 75 5% 1/10W	
R218	1-216-022-00	METAL CHIP 75 5% 1/10W	
R219	1-216-022-00	METAL CHIP 75 5% 1/10W	
R220	1-216-022-00	METAL CHIP 75 5% 1/10W	
R221	1-216-022-00	METAL CHIP 75 5% 1/10W	
R222	1-216-022-00	METAL CHIP 75 5% 1/10W	
R223	1-216-022-00	METAL CHIP 75 5% 1/10W	
R224	1-216-022-00	METAL CHIP 75 5% 1/10W	
R225	1-216-022-00	METAL CHIP 75 5% 1/10W	
R226	1-216-097-11	RES-CHIP 100K 5% 1/10W	
R227	1-216-097-11	RES-CHIP 100K 5% 1/10W	
R228	1-216-097-11	RES-CHIP 100K 5% 1/10W	
R229	1-216-097-11	RES-CHIP 100K 5% 1/10W	
R230	1-216-097-11	RES-CHIP 100K 5% 1/10W	
R231	1-216-001-00	METAL CHIP 10 5% 1/10W	
R232	1-216-001-00	METAL CHIP 10 5% 1/10W	
R233	1-216-001-00	METAL CHIP 10 5% 1/10W	
R235	1-216-105-11	RES-CHIP 220K 5% 1/10W	(AEP)
R236	1-216-105-11	RES-CHIP 220K 5% 1/10W	(AEP)
R237	1-216-037-00	METAL CHIP 330 5% 1/10W	(AEP)
R238	1-216-037-00	METAL CHIP 330 5% 1/10W	(AEP)
R239	1-216-097-11	RES-CHIP 100K 5% 1/10W	
R245	1-216-063-11	RES-CHIP 3.9K 5% 1/10W	
R246	1-216-089-11	RES-CHIP 47K 5% 1/10W	
R247	1-216-089-11	RES-CHIP 47K 5% 1/10W	
R248	1-216-051-00	METAL CHIP 1.2K 5% 1/10W	
R249	1-216-089-11	RES-CHIP 47K 5% 1/10W	
R250	1-216-089-11	RES-CHIP 47K 5% 1/10W	
R251	1-216-035-00	METAL CHIP 270 5% 1/10W	(EXCEPT AEP)
R252	1-216-065-11	RES-CHIP 4.7K 5% 1/10W	

S-VIDEO | UP CONVERT

Ref. No.	Part No.	Description			Remark
R254	1-216-097-11	RES-CHIP	100K	5%	1/10W
R255	1-216-049-11	RES-CHIP	1K	5%	1/10W
R278	1-216-022-00	METAL CHIP	75	5%	1/10W
R279	1-216-022-00	METAL CHIP	75	5%	1/10W
R290	1-216-097-11	RES-CHIP	100K	5%	1/10W
R296	1-216-295-11	SHORT CHIP	0		
R297	1-216-295-11	SHORT CHIP	0		
R298	1-216-295-11	SHORT CHIP	0		
R299	1-216-295-11	SHORT CHIP	0		
R2220	1-249-393-11	CARBON	10	5%	1/4W (TW,KR)
R2221	1-216-073-00	RES-CHIP	10K	5%	1/10W (EXCEPT AEP)
R2222	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (EXCEPT AEP)
R2224	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (EXCEPT AEP)
R2225	1-216-053-00	METAL CHIP	1.5K	5%	1/10W (EXCEPT AEP)
R2226	1-216-073-00	RES-CHIP	10K	5%	1/10W (EXCEPT AEP)
R2227	1-216-073-00	RES-CHIP	10K	5%	1/10W (EXCEPT AEP)
R2228	1-216-049-11	RES-CHIP	1K	5%	1/10W (EXCEPT AEP)
R2229	1-216-049-11	RES-CHIP	1K	5%	1/10W (EXCEPT AEP)
R2230	1-216-033-00	METAL CHIP	220	5%	1/10W (EXCEPT AEP)
R2231	1-216-053-00	METAL CHIP	1.5K	5%	1/10W (EXCEPT AEP)
R2232	1-216-295-11	SHORT CHIP	0		(EXCEPT AEP)
		< RELAY >			
RY220	1-515-622-11	RELAY (EXCEPT AEP)			
		< CONNECTOR >			
TP201	1-784-921-11	PIN, CONNECTOR 4P			
		< VIBRATOR >			
X202	1-781-821-21	VIBRATOR, CRYSTAL (14.3MHz) (EXCEPT AEP)			
**********					
	A-4728-955-A	UP CONVERT BOARD, COMPLETE			(DA4ES/DA7ES)
		**********			
		< CAPACITOR >			
C3100	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (DA4ES/DA7ES)
C3101	1-163-229-11	CERAMIC CHIP	12PF	5%	50V (DA4ES/DA7ES)
C3102	1-126-947-11	ELECT	47uF	20%	10V (DA4ES/DA7ES)
C3103	1-165-319-11	CERAMIC CHIP	0.1uF		50V (DA4ES/DA7ES)
C3104	1-126-947-11	ELECT	47uF	20%	10V (DA4ES/DA7ES)
C3105	1-104-665-11	ELECT	100uF	20%	10V (DA4ES/DA7ES)
C3106	1-165-319-11	CERAMIC CHIP	0.1uF		50V (DA4ES/DA7ES)
C3107	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V (DA4ES/DA7ES)
C3108	1-126-959-11	ELECT	0.47uF	20%	50V (DA4ES/DA7ES)
C3109	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V (DA4ES/DA7ES)
C3110	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V (DA4ES/DA7ES)
C3111	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V (DA4ES/DA7ES)
C3112	1-163-257-11	CERAMIC CHIP	180PF	5%	50V (DA4ES/DA7ES)
C3113	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V (DA4ES/DA7ES)
C3114	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V (DA4ES/DA7ES)
C3115	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V (DA4ES/DA7ES)
C3116	1-165-319-11	CERAMIC CHIP	0.1uF		50V (DA4ES/DA7ES)
C3117	1-104-665-11	ELECT	100uF	20%	10V (DA4ES/DA7ES)
C3118	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (DA4ES/DA7ES)
C3119	1-163-229-11	CERAMIC CHIP	12PF	5%	50V (DA4ES/DA7ES)
C3120	1-126-947-11	ELECT	47uF	20%	10V (DA4ES/DA7ES)
C3121	1-165-319-11	CERAMIC CHIP	0.1uF		50V (DA4ES/DA7ES)
C3123	1-104-665-11	ELECT	100uF	20%	10V (DA4ES/DA7ES)
C3124	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (DA4ES/DA7ES)
C3125	1-163-229-11	CERAMIC CHIP	12PF	5%	50V (DA4ES/DA7ES)
C3126	1-130-495-00	MYLAR	0.1uF	5%	50V (DA4ES/DA7ES)
C3127	1-163-245-11	CERAMIC CHIP	56PF	5%	50V (DA4ES/DA7ES)
C3128	1-126-961-11	ELECT	2.2uF	20%	50V (DA4ES/DA7ES)
C3129	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V (DA4ES/DA7ES)
C3130	1-126-963-11	ELECT	4.7uF	20%	50V (DA4ES/DA7ES)
C3131	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V (DA4ES/DA7ES)
C3132	1-163-131-00	CERAMIC CHIP	390PF	5%	50V (DA4ES/DA7ES)
C3133	1-163-135-00	CERAMIC CHIP	560PF	5%	50V (DA4ES/DA7ES)
C3134	1-126-960-11	ELECT	1uF	20%	50V (DA4ES/DA7ES)
C3135	1-163-231-11	CERAMIC CHIP	15PF	5%	50V (DA4ES/DA7ES)
C3136	1-165-319-11	CERAMIC CHIP	0.1uF		50V (DA4ES/DA7ES)
C3137	1-165-319-11	CERAMIC CHIP	0.1uF		50V (DA4ES/DA7ES)

UP CONVERT

Ref. No.	Part No.	Description			Remark
C3138	1-126-947-11	ELECT	47uF	20% 10V	(DA4ES/DA7ES)
		< CONNECTOR >			
CN3101	1-766-724-11	CONNECTOR, BOARD TO BOARD 7P			(DA4ES/DA7ES)
		< FERRITE BEAD >			
FB3101	1-469-152-11	FERRITE, EMI (SMD) (DA4ES/DA7ES)			
FB3102	1-469-152-11	FERRITE, EMI (SMD) (DA4ES/DA7ES)			
FB3103	1-469-152-11	FERRITE, EMI (SMD) (DA4ES/DA7ES)			
		< IC >			
IC3100	8-759-678-99	IC TC90A45F (DA4ES/DA7ES)			
IC3101	8-759-826-19	IC MM1093NF (DA4ES/DA7ES)			
		< JUMPER RESISTOR >			
JW3121	1-216-295-11	SHORT CHIP	0		(DA4ES/DA7ES)
JW3122	1-216-295-11	SHORT CHIP	0		(DA4ES/DA7ES)
JW3123	1-216-295-11	SHORT CHIP	0		(DA4ES/DA7ES)
		< COIL >			
L3100	1-412-064-11	INDUCTOR	100uH (DA4ES/DA7ES)		
L3101	1-412-011-31	INDUCTOR	27uH (DA4ES/DA7ES)		
L3102	1-412-064-11	INDUCTOR	100uH (DA4ES/DA7ES)		
L3103	1-412-011-31	INDUCTOR	27uH (DA4ES/DA7ES)		
L3104	1-412-011-31	INDUCTOR	27uH (DA4ES/DA7ES)		
L3105	1-414-194-11	INDUCTOR	33uH (DA4ES/DA7ES)		
		< TRANSISTOR >			
Q3100	8-729-230-49	TRANSISTOR	2SC2712-YG (DA4ES/DA7ES)		
Q3101	8-729-230-49	TRANSISTOR	2SC2712-YG (DA4ES/DA7ES)		
Q3102	8-729-216-22	TRANSISTOR	2SA1162-G (DA4ES/DA7ES)		
Q3103	8-729-230-49	TRANSISTOR	2SC2712-YG (DA4ES/DA7ES)		
Q3104	8-729-230-49	TRANSISTOR	2SC2712-YG (DA4ES/DA7ES)		
Q3105	8-729-230-49	TRANSISTOR	2SC2712-YG (DA4ES/DA7ES)		
Q3106	8-729-216-22	TRANSISTOR	2SA1162-G (DA4ES/DA7ES)		
Q3107	8-729-216-22	TRANSISTOR	2SA1162-G (DA4ES/DA7ES)		
Q3108	8-729-230-49	TRANSISTOR	2SC2712-YG (DA4ES/DA7ES)		
Q3109	8-729-230-49	TRANSISTOR	2SC2712-YG (DA4ES/DA7ES)		
Q3110	8-729-230-49	TRANSISTOR	2SC2712-YG (DA4ES/DA7ES)		
Q3111	8-729-216-22	TRANSISTOR	2SA1162-G (DA4ES/DA7ES)		
Q3112	8-729-216-22	TRANSISTOR	2SA1162-G (DA4ES/DA7ES)		
		< RESISTOR >			
R3101	1-216-051-00	METAL CHIP	1.2K	5% 1/10W	(DA4ES/DA7ES)
R3102	1-216-069-00	METAL CHIP	6.8K	5% 1/10W	(DA4ES/DA7ES)
R3103	1-216-043-11	RES-CHIP	560	5% 1/10W	(DA4ES/DA7ES)
R3104	1-216-051-00	METAL CHIP	1.2K	5% 1/10W	(DA4ES/DA7ES)
R3105	1-216-047-11	RES-CHIP	820	5% 1/10W	(DA4ES/DA7ES)
R3106	1-216-047-11	RES-CHIP	820	5% 1/10W	(DA4ES/DA7ES)
R3107	1-216-075-00	METAL CHIP	12K	5% 1/10W	(DA4ES/DA7ES)
R3108	1-216-043-11	RES-CHIP	560	5% 1/10W	(DA4ES/DA7ES)
R3110	1-216-047-11	RES-CHIP	820	5% 1/10W	(DA4ES/DA7ES)
R3111	1-216-047-11	RES-CHIP	820	5% 1/10W	(DA4ES/DA7ES)
R3112	1-216-043-11	RES-CHIP	560	5% 1/10W	(DA4ES/DA7ES)
R3113	1-216-051-00	METAL CHIP	1.2K	5% 1/10W	(DA4ES/DA7ES)
R3114	1-216-069-00	METAL CHIP	6.8K	5% 1/10W	(DA4ES/DA7ES)
R3115	1-216-043-11	RES-CHIP	560	5% 1/10W	(DA4ES/DA7ES)
R3116	1-216-051-00	METAL CHIP	1.2K	5% 1/10W	(DA4ES/DA7ES)
R3117	1-216-047-11	RES-CHIP	820	5% 1/10W	(DA4ES/DA7ES)
R3118	1-216-025-11	RES-CHIP	100	5% 1/10W	(DA4ES/DA7ES)
R3120	1-216-075-00	METAL CHIP	12K	5% 1/10W	(DA4ES/DA7ES)
R3121	1-216-043-11	RES-CHIP	560	5% 1/10W	(DA4ES/DA7ES)
R3122	1-260-354-71	CARBON	150	5% 1/2W	(DA4ES/DA7ES)
R3123	1-216-047-11	RES-CHIP	820	5% 1/10W	(DA4ES/DA7ES)
R3124	1-216-043-11	RES-CHIP	560	5% 1/10W	(DA4ES/DA7ES)
R3125	1-216-051-00	METAL CHIP	1.2K	5% 1/10W	(DA4ES/DA7ES)
R3126	1-216-069-00	METAL CHIP	6.8K	5% 1/10W	(DA4ES/DA7ES)
R3127	1-216-043-11	RES-CHIP	560	5% 1/10W	(DA4ES/DA7ES)
R3128	1-216-051-00	METAL CHIP	1.2K	5% 1/10W	(DA4ES/DA7ES)
R3129	1-216-047-11	RES-CHIP	820	5% 1/10W	(DA4ES/DA7ES)
R3130	1-216-025-11	RES-CHIP	100	5% 1/10W	(DA4ES/DA7ES)
R3131	1-216-039-00	METAL CHIP	390	5% 1/10W	(DA4ES/DA7ES)
R3132	1-216-075-00	METAL CHIP	12K	5% 1/10W	(DA4ES/DA7ES)
R3133	1-216-043-11	RES-CHIP	560	5% 1/10W	(DA4ES/DA7ES)
R3134	1-260-354-71	CARBON	150	5% 1/2W	(DA4ES/DA7ES)
R3136	1-216-073-00	RES-CHIP	10K	5% 1/10W	(DA4ES/DA7ES)
R3137	1-216-073-00	RES-CHIP	10K	5% 1/10W	(DA4ES/DA7ES)
R3138	1-216-067-00	METAL CHIP	5.6K	5% 1/10W	(DA4ES/DA7ES)
R3139	1-216-077-11	RES-CHIP	15K	5% 1/10W	(DA4ES/DA7ES)
R3140	1-216-121-11	RES-CHIP	1M	5% 1/10W	(DA4ES/DA7ES)

Ref. No.	Part No.	Description			Remark
R3141	1-216-039-00	METAL CHIP	390	5%	1/10W (DA4ES/DA7ES)
R3142	1-216-022-00	METAL CHIP	75	5%	1/10W (DA4ES/DA7ES)
R3143	1-216-022-00	METAL CHIP	75	5%	1/10W (DA4ES/DA7ES)
R3144	1-216-049-11	RES-CHIP	1K	5%	1/10W (DA4ES/DA7ES)
R3145	1-216-045-00	METAL CHIP	680	5%	1/10W (DA4ES/DA7ES)
R3146	1-216-035-00	METAL CHIP	270	5%	1/10W (DA4ES/DA7ES)
		< VIBRATOR >			
X3100	1-781-342-21	OSCILLATOR, CRYSTAL (3.5795MHz)			(DA4ES/DA7ES)
**********					
	1-685-490-11	VIDEO3 BOARD			
		**********			
		< CAPACITOR >			
C113	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C114	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C115	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C117	1-165-319-11	CERAMIC CHIP	0.1uF		50V
		< CONNECTOR >			
* CNP107	1-564-711-11	PIN, CONNECTOR (SMALL TYPE) 9P			
		< JACK >			
J102	1-764-190-21	JACK, PIN 3P (VIDEO 3 INPUT)			
		< JUMPER RESISTOR >			
JR101	1-216-295-11	SHORT CHIP	0		
		< RESISTOR >			
R168	1-216-022-00	METAL CHIP	75	5%	1/10W
R169	1-216-022-00	METAL CHIP	75	5%	1/10W
R170	1-216-022-00	METAL CHIP	75	5%	1/10W
R171	1-216-049-11	RES-CHIP	1K	5%	1/10W
R172	1-216-049-11	RES-CHIP	1K	5%	1/10W
R173	1-216-097-11	RES-CHIP	100K	5%	1/10W
R174	1-216-097-11	RES-CHIP	100K	5%	1/10W
**********					
	1-685-489-11	VOLUME BOARD			
		**********			
		< CONNECTOR >			
CNP105	1-779-978-11	PIN, CONNECTOR 3P			
		< ROTARY ENCODER >			
RV103	1-477-382-11	ENCODER, ROTARY (MASTER VOLUME)			
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Ref. No.	Part No.	Description	Remark
	1-685-494-11	4/8 BOARD	
		*********	
		< CONNECTOR >	
* CNP903	1-564-607-11	PIN, CONNECTOR (3.96mm PITCH) 6P	
		< SWITCH >	
S902	1-771-876-11	SWITCH, POWER (IMPEDANCE SELECTOR)	
**********			
		MISCELLANEOUS	
		**********	
115	1-773-162-11	WIRE (FLAT TYPE) (21 CORE)	
116	1-773-021-11	WIRE (FLAT TYPE) (15 CORE)	
157	1-773-021-11	WIRE (FLAT TYPE) (15 CORE)	
⚠160	1-769-079-22	CORD, POWER (KR)	
162	1-823-582-11	WIRE (FLAT TYPE) (15 CORE)	
164	1-769-971-11	WIRE (FLAT TYPE) (13 CORE)	
166	1-769-969-11	WIRE (FLAT TYPE) (13 CORE)	
167	1-769-975-11	WIRE (FLAT TYPE) (13 CORE)	
169	1-769-879-11	WIRE (FLAT TYPE) (7 CORE) (DA4ES/DA7ES)	
201	1-769-971-11	WIRE (FLAT TYPE) (13 CORE)	
256	1-469-241-11	CORE, FERRITE (RFC-8 BK)	
⚠F801	1-533-312-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(10A/125V)
⚠F802	1-533-312-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(10A/125V)
⚠F805	1-532-464-51	FUSE, TIME-LAG (T2.5AL/250V) (VA333ES)	
⚠F805	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(4A/125V) (DA4ES/DA7ES)
⚠F806	1-532-464-51	FUSE, TIME-LAG (T2.5AL/250V) (VA333ES)	
⚠F806	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(4A/125V) (DA4ES/DA7ES)
⚠F901	1-532-325-00	FUSE, TIME-LAG (T6.3AL/250V) (AEP,KR)	
⚠F901	1-576-379-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(15A/250V) (US,CND,TW)
⚠F902	1-532-464-51	FUSE, TIME-LAG (T2.5AL/250V) (AEP)	
IC502	8-749-014-72	IC SAP15N	
IC503	8-749-014-73	IC SAP15P	
IC552	8-749-014-72	IC SAP15N	
IC553	8-749-014-73	IC SAP15P	
IC602	8-749-014-72	IC SAP15N	
IC603	8-749-014-73	IC SAP15P	
IC652	8-749-014-72	IC SAP15N	
IC653	8-749-014-73	IC SAP15P	
IC654	8-749-014-72	IC SAP15N	
IC655	8-749-014-73	IC SAP15P	
IC702	8-749-014-72	IC SAP15N	
IC703	8-749-014-73	IC SAP15P	
IC752	8-749-014-72	IC SAP15N	
IC753	8-749-014-73	IC SAP15P	
⚠T901	1-437-270-11	TRANSFORMER, POWER (US)	
⚠T901	1-437-271-11	TRANSFORMER, POWER (DA4ES:CND)	
⚠T901	1-437-272-11	TRANSFORMER, POWER (TW)	
⚠T901	1-437-274-11	TRANSFORMER, POWER (AEP,KR)	
⚠T901	1-437-872-11	TRANSFORMER, POWER (DA7ES:CND)	
TU301	1-693-539-21	TUNER PACK (FM/AM) (DA4ES/DA7ES)	

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Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
TU301	1-693-540-21	TUNER PACK (FM/AM) (VA333ES)	
**********			
		ACCESSORIES	
		**********	
⚠	1-476-351-12	ADAPTOR, AC (AC-96NP) (for RM-TP1)	(DA7ES)
	1-476-644-21	COMMANDER, STANDARD (RM-US105A)	(DA7ES)
	1-477-333-11	REMOTE COMMANDER (RM-LP211)	(DA4ES/VA333ES)
	1-477-431-11	COMMANDER, STANDARD (RM-TP1) (DA7ES)	
	1-501-374-11	ANTENNA, LOOP (AM)	
	1-501-594-13	ANTENNA (FM) (AEP,TW)	
⚠	1-551-631-22	CORD, POWER (AEP)	
⚠	1-757-130-11	CORD, POWER (TW)	
	1-777-172-11	CORD, CONNECTION (CONTROL S)	(DA4ES/DA7ES)
	1-777-560-11	CORD, CONNECTION (AUDIO/VIDEO/CONTROL S)	(DA4ES/DA7ES)
	1-793-184-21	CONNECTOR (F TYPE ADAPTOR) (FM ANTENNA)	(DA4ES/DA7ES/VA333ES:KR)
	1-816-267-11	CHARGER, BATTERY (for RM-TP1) (DA7ES)	
⚠	1-823-512-11	CORD, POWER (DA4ES/DA7ES)	
	3-179-022-31	COVER, DUSTER	
	4-228-696-01	COVER, BATTERY (for RM-US105A) (DA7ES)	
	4-239-573-01	COVER, BATTERY (for RM-TP1) (DA7ES)	
	4-241-478-01	COVER, BATTERY (for RM-LP211)	(DA4ES/VA333ES)
	4-241-666-11	MANUAL, INSTRUCTION (ENGLISH)	(DA4ES/DA7ES)
	4-241-666-21	MANUAL, INSTRUCTION (FRENCH) (CND)	
	4-241-667-11	MANUAL, INSTRUCTION (ENGLISH) (AEP,TW)	
	4-241-667-21	MANUAL, INSTRUCTION (FRENCH,SPANISH, GERMAN,DUTCH) (AEP)	
	4-241-667-31	MANUAL, INSTRUCTION (SWEDISH,ITALIAN, PORTUGUESE) (AEP)	
	4-241-667-41	MANUAL, INSTRUCTION (TRADITIONAL CHINESE)	(TW)
	4-241-667-51	MANUAL, INSTRUCTION (KOREAN) (KR)	
	4-241-668-11	MANUAL, INSTRUCTION (PORTUGUESE) (AEP)	
	4-241-668-21	MANUAL, INSTRUCTION (DANISH,FINNISH)	(AEP)
	4-241-668-31	MANUAL, INSTRUCTION (RUSSIAN) (AEP)	
	4-241-675-11	MANUAL, INSTRUCTION (ENGLISH) (DA4ES/ VA333ES:AEP,TW)	
	4-241-675-21	MANUAL, INSTRUCTION (FRENCH)	(DA4ES:CND/VA333ES:AEP)
	4-241-675-31	MANUAL, INSTRUCTION (SPANISH) (AEP)	
	4-241-675-41	MANUAL, INSTRUCTION (GERMAN,DUTCH, SWEDISH) (AEP)	
	4-241-675-51	MANUAL, INSTRUCTION (ITALIAN, PORTUGUESE) (AEP)	
	4-241-675-61	MANUAL, INSTRUCTION (TRADITIONAL CHINESE)	(TW)
	4-241-675-71	MANUAL, INSTRUCTION (KOREAN) (KR)	
	4-241-676-11	MANUAL, INSTRUCTION (PORTUGUESE) (AEP)	
	4-241-676-21	MANUAL, INSTRUCTION (DANISH,FINNISH)	(AEP)
	4-241-676-31	MANUAL, INSTRUCTION (RUSSIAN) (AEP)	
	4-241-679-11	MANUAL, INSTRUCTION (GREEK) (AEP)	
	4-241-679-21	MANUAL, INSTRUCTION (HUNGARIAN,CZECH)	(AEP)
	4-241-679-31	MANUAL, INSTRUCTION (TURKISH) (AEP)	
	4-241-679-41	MANUAL, INSTRUCTION (SLOVAKIAN) (AEP)	
	4-241-687-11	MANUAL, INSTRUCTION (GREEK) (AEP)	
	4-241-687-21	MANUAL, INSTRUCTION (HUNGARIAN,CZECH)	(AEP)
	4-241-687-31	MANUAL, INSTRUCTION (TURKISH) (AEP)	
	4-241-687-41	MANUAL, INSTRUCTION (SLOVAKIAN) (AEP)	

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MEMO

REVISION HISTORY

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Also, clicking the version at the upper on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2002. 07	New